20000317.qrp v01_n763.qrl.20000317

Date: Fri, 17 Mar 2000 19:03:05 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1763

QRP-L Digest 1763

Topics covered in this issue include:

    by K1JD@aol.com
20) [65888] FS FOX TANGO EXTERNAL ANT. TUNER
    by RangerSF5@aol.com
21) [65889] Re: WTB: Showa 9MHz SSB Filters
    by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
22) [65890] RE: QRP operating articles?
    by Ray Colbert <af852@rgfn.epcc.edu>
23) [65891] Tail End Charlie!
    by "George T. Baker" <w5yr@att.net>
24) [65892] RE: FOX: Tonights hunt
    by "NA6E" <na6e@qsl.net>
25) [65893] Re: Kits: Best Bang for the buck-EMTECH
    by "Frank Grigaliunas" <fgrig@iea.com>
26) [65894] OT: Irridium Story
    by "Stephen D. Cohen" <scohen@tampabay.rr.com>
27) [65895] FOX: NA6E log
    by "NA6E" <na6e@qsl.net>
28) [65896] Re: HB: Low Phase Noise VFO
    by "Paul Harden, NA5N" <na5n@rt66.com>
29) [65897] Re: HB: Low Phase Noise VFO
    by "Leon Heller" <leon_heller@hotmail.com>
30) [65898] Re: Kits: Best Bang for the buck-EMTECH
    by "Michael" <steam@megsinet.net>
31) [65899] Receiving loops
    by Howard D Rubin <n3fel@juno.com>
32) [65900] Re: Receiving loops
    by Chris Trask <ctrask@primenet.com>
33) [65901] Extra at last!
    by "Wilford D. Lindsey" <70511.3041@compuserve.com>
34) [65902] [Help - TestGear] Mineral Oil for Load
    by Michael Melland <badger@vbe.com>
35) [65903] Re: HB: Low Phase Noise VFO
    by "Lau, Zack, W1VT" <zlau@arrl.org>
36) [65904] Re: Kits: Best Bang for the buck under $100
    by "Steve/n0tu" <n0tu@webaccess.net>
37) [65905] RE: HB: Low Phase Noise VFO
    by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
38) [65906] Re: [FOX]: 3/17 (thursday nite)
    by "Pete (N9SSA)" <n9ssa@arrl.net>
39) [65907] FOX: Corrected Log for NA6E
    by "NA6E" <na6e@qsl.net>
40) [65908] Re: HB: Low Phase Noise VFO
    by Jerry Haigwood <w5jh@swlink.net>
41) [65909] SUMMARY: HB: 11M groundplane for Ham Bands?
    by "Pete (N9SSA)" <n9ssa@arrl.net>
42) [65910] HB: All band vertical?
    by "Pete (N9SSA)" <n9ssa@arrl.net>
43) [65911] Re: SCAF Filter Info Needed ..!

by Laura Halliday <va3ldh@sympatico.ca>
44) [65912] Re: PSK-31: External sound cards
by Laura Halliday <va3ldh@sympatico.ca>
45) [65913] RE: Tuna Tin II
by Jim Glover <psykey@okcforum.org>
46) [65914] Re: [FOX]: 3/17 (thursday nite)
by "George T. Baker" <w5yr@att.net>
47) [65915] Re: Extra at last!
by "The Weinsteins" <weinsteins@home.com>
48) [65916] Re: [Help - TestGear] Mineral Oil for Load
by "George T. Baker" <w5yr@att.net>
49) [65917] Re: R/S Mic help
by Ed Loranger <we6w@qsl.net>
50) [65918] fox hunt #37 - KQ5U -
by Bruce Rattray <rattray@gpfn.sk.ca>
51) [65919] Re: LZ-bound K2 to be checked out tonight.
by Allan G Taylor <agtaylor@llnl.gov>
52) [65920] FOXHUNT:Team Scores
by Bruce Rattray <rattray@gpfn.sk.ca>
53) [65921] RE: HB: Low Phase Noise VFO
by "Steven Weber" <kd1jv@moose.ncia.net>
54) [65922] Re: All band vertical?
by "Scott Hotchkiss" <w4pj@bellsouth.net>
55) [65923] suprize????
by hamjoel@juno.com
56) [65924] Re: ATLANTICON: The Kite Thing (long-ish)
by "Richard Brummer, K2JQ" <obvious@bestweb.net>
57) [65925] Re: [Help - TestGear] Mineral Oil for Load
by "Richard Brummer, K2JQ" <obvious@bestweb.net>
58) [65926] Re: suprize????
by "Victor Blackwell" <victor@brecnet.com>
59) [65927] Re: Extra at last!
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
60) [65928] 10 meters ...WOW !!!!!
by osier <osier@northnet.org>
61) [65929] Re: 10 meters ...WOW/PROP report
by "Paul Harden, NA5N" <na5n@rt66.com>
62) [65930] NEED CD4560 IC...
by Sam Billingsley <SBillingsley@usaninc.com>
63) [65931] Re: Iridium goes QRT
by "Paul Harden, NA5N" <na5n@rt66.com>
64) [65932] Re: OT: Irridium Story
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
65) [65933] Re: HB: Low Phase Noise VFO
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
66) [65934] New LDG Tuners
by Joseph Trombino Jr <joebarb@wilmington.net>
67) [65935] Re: New LDG Tuners

    by "George T. Baker" <w5yr@att.net>
 68) [65936] New LDG Tuners
    by Joseph Trombino Jr <joebarb@wilmington.net>
 69) [65937] FS: NC20, St. Louis Tuner
    by "David Maliniak" <dmaliniak@vertical.net>
 70) [65938] Re: New LDG Tuners
    by Bill Jones <kd7s@psnw.com>
 71) [65939] Re: Kits: Best Bang for the buck under $100
    by Larry Cahoon <wd3p@juno.com>
 72) [65940] Re: New LDG Tuners
    by "Frank Krozel" <frank@electronicinstrument.com>
 73) [65941] ALL IS WELL, MURPHY CAME TO VISIT
    by hamjoel@juno.com
 74) [65942] Re: New LDG Tuners
    by "George T. Baker" <w5yr@att.net>
 75) [65943] Re: New LDG Tuners
    by "Paul Christensen" <paulc@mediaone.net>
 76) [65944] Mike Preamp designed.
    by Ed Loranger <we6w@qsl.net>
 77) [65945] Re: New LDG Tuners
    by Bill Jones <kd7s@psnw.com>
 78) [65946] FS Extra stuff
    by "beaks" <beaks@westco.net>
 79) [65947] Need computer help
    by RangerSF5@aol.com
 80) [65948] QRO items for sale
    by RangerSF5@aol.com

Date: Thu, 16 Mar 2000 17:32:48 -0700
From: "Mark M." <markem@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [65869] Re: Is this insane or what?
Message-ID: <3.0.6.32.20000316173248.007b15b0@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 14:29 03/16/2000 -0800, Samuel A. Falvo II wrote:
>>
>> News Report
>>
>> Iridium, the bankrupt satellite phone company whose money finally runs
>> out on Friday, is said to be preparing plans to burn up 66 satellites
>> worth $7 billion. Its entire global network will be "de-orbited" as the
>
>Source please?
>

Try http://biz.yahoo.com/rf/000315/bfs.html among others.

Hard to believe they'd just destroy them but it costs money just to keep them up there and there's no one to pay the bill.

Seems like an awful waste of technology to say nothing of the time & effort that a lot of people put into designing, building, etc. But bean counters don't care about that.

Sigh...

Mark

Date: Thu, 16 Mar 2000 19:37:40 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [65870] Murphy should have been there:
Message-ID: <20000316.193743.-139093.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

All I can say is murphy should have been there...
I checked the feed line... checked fine... that is ...not shorted ...not open, cont to ant checked on ant each leg...
My antenna now rests on the ground... searched and searched but nuttin wrong did I find... The ground was wet and cold... now the rain and sneaux claim squatters rights... I don't understand, I really don't.... it should have worked...
Wanting 3 elements but not a reflector as one of the three... do intellegent minds kneaux if driven, dir, dir... would work with about the same gain as a ref, driv., dir...
the reason I ask, and it is sound.... I can hang three or four elements... if the driven element is securely bound.... (it has the weight in the middle)...
I'm tired, I got throughly whipped by that antenna today... my cajun mama is threatening to take the wire and roll it into a ball and throw it in the fire... just to see if it will melt into a ball of copper....
Murphy should be heah ... he could cheer me up.... :-)

Joel KE1LA
In Maine
whipped but not beaten

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http://dl.www.juno.com/get/tagj.

Date: Thu, 16 Mar 2000 16:39:53 -0800
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65871] FOX: Tonights hunt
Message-ID: <LPBBKMHGKJHAFCHLDJBAGEBICEAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I suppose it wouldn't be right if I didn't mess up a post somehow. I will
be as close to 4100 tonight as I can get. I have a feeling this is going to
be a lot different than the N/T+ hunts of last year :)

73
Mary, NA6E
Sacramento, CA
QRP-C #7   QRP-ARCI #9923   WHINER'S #2

Date: Thu, 16 Mar 2000 20:01:01 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [65872] HB: Panel Labels
Message-ID: <3.0.32.20000316200057.0068589c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I've never seen this method mentioned so thought I would submit
it.
The recent thread about labelers got me thinking and I realized
that my dusty Brother Word Processor could be used if I could
find a clear tape that held the typing ink. So I got a roll of
that frosty looking Scotch called "Magic Tape" and laid strips
of it on that slippery backing that the new postal stamps come
on and rolled it into the WP in the type mode. Then I typed in
some labels for the new HB SPC Transmatch.
DON'T touch the ink at this point, it will smear.

I laid the sheet outside in the sun for a few hours and it
became quite durable.
They really show up well on aluminum.....haven't tried any
clear sealants yet...almost don't need one.
73 Pete NV4V

Date: Thu, 16 Mar 2000 18:03:14 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Subject: [65873] Iridium goes QRT
Message-ID: <Pine.SUN.4.10.10003161736120.17186-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
First ... my brand new computer died 2 weeks ago, which looked like a
premature hard drive failure, which ended up being a mother board/IDE
controller that died from infant mortality. You really feel naked now a
days without a computer and especially QRP-L. I did read it daily during
lunch, but the limited time keeps you from responding. So sorry for
my apparent silence and inability to respond to private email.. I did not
go anywhere, did not change groups or lists or anything, as a few had
asked, just fell into virtually purgatory for 2 weeks :-(I will always
support QRP-L.

IRIDIUM.
As Ian Ourdie VK2TIP posted, Iridium is just about history. We have
been involved with the Iridium project for many years, long before the
first satellite was launched. Simply because of potential RFI
interference to the VLA's L-band receivers. You see, Iridium places a
real nice carrier and modulation sidebands (which expands as the traffic
increases) around 1620 MHz. Our L-band receivers covers this, as the
"OH radical spectral line" is located at 1612 MHz. Astronomers use this
molecular spectrum line for gobs of important science and imaging.
Pretty nasty when you have a host of satellite carriers less than 10MHz
away. So as a result, we have an Iridium monitoring system that operates
24 hours a day, plotting all the RF power in our frequency range, for
which Iridium makes this nice, thick, black streak down the plots. Not
as bad as first proposed, I must say, due to some level of coordination
when Iridium satellites fly over our part of New Mexico.

The word we have is Iridium needed about 1 million customers to break
even and turn a profit. They are running about 30,000 customers, far
short of making any money. They have filed for bankruptcy and indeed
run out of money tomorrow (friday). This means they don't have the
money to keep people on to monitor their fleet of 66 satellites. If you

have a satellite(s) in orbit, you have to monitor it fairly regularly to ensure they are working properly, not shifting orbits into the paths of others, etc. They have been ordered by the bankruptcy court to shut down their operation at midnight tomorrow night (don't know if that's UTC, EST or what). Furthermore, if they are not able to secure a buyer for Iridium satellites to at least monitor them as required, they will be ordered to be thrusted earthbound to burn up in our atmosphere ... which as a minimum should make an impressive light show some evening in the near future (within 3 months).

I talked to our RFI engineer today (Raul Armendaris). He is looking forward to checking the RFI plots to see the Iridium carrier stop when they get turned off. He has promised to give me a copy of the plot, which I will make available to the NorCal webpage or anyone else interested in displaying it. Not to gloat over their demise, but more as an example of all the RF flying around ABOVE us, which we often forget. It really is a shame that some $7 billion of hardware has to come to this sort of end. But you can't have 66 birds flying around up there without some sort of control.

I *will* post to QRP-L when they thrust the Iridium satellites to burn up in our atmosphere. Due to their numbers, they are bound to be seen by most anyone in nighttime hours when it happens, and thus a once-in-a-lifetime spectacle. Of course it may be a network news story as well, I would think. But I'll post anything else I hear ... just in case you miss it while waiting for that 6M opening or finding W1FB or something :-)

72, Paul NA5N

Date: Thu, 16 Mar 2000 20:23:52 -0500
From: "Morrow, Michael A." <mamorrow@tva.gov>
To: "'ki6ds@hotmail.com'" <ki6ds@hotmail.com>
Cc: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [65874] RE: Kits: Best Bang for the buck under $100
Message-ID: <C37754B38AE5D311A9380000F8014EB0116B55@mshbfnois2b.bfn.tva.gov>
MIME-Version: 1.0
Content-Type: text/plain

Doug Hendricks <ki6ds@hotmail.com> wrote:

> My recommendation to these guys is still the DSW series by Dave Benson.
> This rig has a DDS VFO (NO DRIFT!!), built in Keyer, and Dave Benson's

> version of an AFA.

Don't forget the built-in RIT!

And the DSW is much easier to align upon completion, compared to the typical analog VFO and transmitter mixer designs. The PIC-controlled DDS design:

1. Eliminates ALL VFO calibration, since receive and transmit frequencies are
   generated digitally, which then results in
2. NO transmit oscillator and mixer bandpass adjustments, since there is NO
   transmitter mixer with its associated oscillator.

Peak the input for max noise, and adjust receiver BFO are the only adjustments.
It's much easier for the beginner to adjust than anything else out there.

> The best thing about this rig is that it is only $95!!

In fairness, one will still need an enclosure with controls and connectors. A fellow would be hard pressed to come up with something better than the low-profile DSW enclosure option that Dave offers.

> I have built 2 of these kits, and I highly recommend them.

I highly agree! I've built the DSW-20 and -40, and have the -30 on order.

> By the way, anyone know of a mod to the DSW??

I know of none for improving the CW performance. Bruce Prior, N7RR, has developed a simple mod to shift the BFO frequency to change the sideband received on the DSW-40 or DSW-80 from USB to LSB, and the DSW-20 from LSB to USB. This is a good feature if you want to copy voice SSB on the sideband conventionally used on the associated bands, with a possible degradation of opposite sideband rejection. Bruce recently posted the mod to QRP-L.

> Think about that one folks. What a tribute to the engineering job of Dave
> Benson, NN1G. Every other rig that I can think of that has come out
> in the past 4 or 5 years has had several mods done to it, but that has not
> been the case for the DSW from Small Wonder Labs. That baby works
> fantastic just like it comes out of the box.

To be sure, these are excellent radios which blaze the trail for the inevitable use of DDS in the designs of the other talented QRP rig designers out there. (I know, maybe PLLs will have to be incorporated in higher performance designs, but I'm sure it's all coming soon.)

In the meantime, I'd (almost) kill for a 10 or 15 meter DSW (and a mode A option on the iambic keyer).

73,
Mike / KK5F

Date: Thu, 16 Mar 2000 18:32:35 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: cd25d@rhapsodysails.com
Cc: qrp-l@lehigh.edu
Subject: [65875] [Antennas] 468/f(MHz) Is Just An Approximation
Message-ID: <200003170132.TAA22759@bunyip.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Bill - You asked:

"When using a "good" antenna tuner how closely must the dipole length match
the ft=468/f (mHz) formula?????

"I cut my dipoles a little long and according to the swr reading, am within
the 1.5 - 2 SWR range. Am I missing something or is that okay."

Well, this is okay.

The formula is just an approximation. A half wavelength in free space is 491.8/f(MHz). Real dipoles are somewhat shorter due to end loading. This loading is capacitive and makes the antenna electrically longer than its physical length.

The loading is provided by the end of the antenna to the insulator and surrounding environment. It varies from one antenna to another. The Antenna Book introduces the equation by saying:

"As an average, then, the physical length of an resonant 1/2 wave dipole can be found from"

It calls the equation "reasonably accurate". By the way, my Antenna

Book, 16th edition, says the equation is 467/f(MHz), which just points out that this is not entirely the result of a strict physical law, but of empirical observations. I think that Moxon gives another value for his favorite end insulator, nylon monofolament, used to support the antenna.

It looks like you are just making end connections and insulators with lower capacitance than the "average". The SWRs you achieve are fine, especially with a "good" antenna tuner. If it isn't broken don't fix it!

Sometimes we overlook the origin of common "truths" and look upon them as gospel. It is always good to look at the origins of the things that don't work out right. That and check the Handbook! - KK6MC/5 Dr. Megacycle
James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Thu, 16 Mar 2000 19:40:22 -0600
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: <aa5yx@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65876] Re: Ground loops & RG-174 inter-connections
Message-ID: <003401bf8fb1$c4e9c020$205c32cf@Bleh.Bleh>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmmm... That's more thought provoking than it first appeared ...

Are the two rf stages on the same board; or do they at least have their ground foils connected together? If not, you'd surely need to connect the braid on both ends. Because a circuit has gotta have a return. Same as you mentioned with connecting the external amplifier. In that case, you clearly expect the return path to be through the braid. (True, you may get undesired return through power grounds and so forth, but that's unintentional. You're guaranteed to get returns through an undesired path if you don't hook up the shield.)

I suppose in those cases where they say to NOT hook up the braid on both ends, it's just acting as an electrostatic shield and any return required is through the circuit board or chassis common.

Ground loops happen when you have more than one return conduction path and they are physically separated, forming a "loop." Any changing magnetic field passing through that loop is going to induce a

circulating current. In the case of your shield, that current can be coupled onto your signal (center) conductor, and that's bad.

Having said all that, I'm not sure I answered your question. But maybe if it has a return via the circuit board ground foil, just hook it up one end. But if it's going to a physically (electrically) separate component, hook up both. Now I'll sit back and wait for someone to give the real answer.

72,

Nick, WA5BDU
in Arkansas

-----Original Message-----
From: aa5yx@juno.com <aa5yx@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, March 16, 2000 9:06 AM
Subject: Ground loops & RG-174 inter-connections

>Mornin' all,
>
>I'm currently working on a little homebrew concoction that requires me to
>connect two RF stages with RG-174. I don't know whether I should attach
>the braid of the cable to chassis ground at both ends or only one end. In
>several kits, these types of interconnections have specified that only
>one end of the coax should be grounded to the chassis. The other end of
>the braid "floats" in order to prevent ground loops.
>
>However, when an external amplifier is attached to a transmitter, the
>interconnecting patch cable is grounded (via the braid) at both ends. Why
>doesn't this cause the potential ground loop problem cautioned against in
>various kit instructions?
>
>Thanks for the tech assist!
>72,
>
>John Harper AA5YX/2
>HW-9, OHR-100A/20, NC40A,SST30, SST40, DSW20
>Outdoor QRP Page: http://home.att.net/~j..harper

>
>_____
>YOU'RE PAYING TOO MUCH FOR THE INTERNET!
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>http://dl.www.juno.com/get/tagj.
>

Date: Thu, 16 Mar 2000 20:45:37 EST
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [65877] Kits: Best Bang for the buck-EMTECH
Message-ID: <71.18533d9.2602e841@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

There are a lot of newer and improved rigs, but the EMTECH NW series was ahead of its time and still is a great performer. It had very few problems, clean signal and super filtering. It was and still is in many cases one of the few that covered the whole cw spectrum. I am not sure why it never received the support the other rigs get in this forum (although I can surmise). Roy--you did a great job-hats off for a job well done. Thanks Scott for continuing with your Dad's line. Alan KB7MBI

Date: Thu, 16 Mar 2000 19:00:00 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: kc5tja@armored.net
Cc: qrp-l@lehigh.edu
Subject: [65878] Irridium Story
Message-ID: <200003170200.UAA17697@bunyip.flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Sam - You asked:

"Source please?"

Concerning the posts about the pending Irridium shutdown and deorbiting. Start with this:

http://dailynews.yahoo.com/h/nm/20000315/tc/tech_iridium_3.html

This is a true story, no matter how unbelievble or insane it seems.

Unfortunately Irridium was a monument to poor business planning, not
poor technology. The system worked well after the initial bugs were
worked out. Costs were too high and demand too low.

Satellites are typically deorbited after their useful life is reached to
avoid putting more space junk in orbit. It must be sad for those who put
a good part of their technical career into Irridium only to see it come
to this ignominious end. RIP 66. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Thu, 16 Mar 2000 18:02:10 -0800
From: KB7WW Art Moe <kb7ww@chatusa.com>
To: na6e@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65879] Re: FOX: Tonights hunt
Message-ID: <38D19222.4B1D7CE3@chatusa.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mary,
Thanks for the pelt and your #1 QSO

Art
KB7WW
Oregon City, OR

NA6E wrote:
>
> I suppose it wouldn't be right if I didn't mess up a post somehow. I will
> be as close to 4100 tonight as I can get. I have a feeling this is going to
> be a lot different than the N/T+ hunts of last year :)
>
> ***73***
> Mary, NA6E
> Sacramento, CA
> QRP-C #7   QRP-ARCI #9923   WHINER'S #2

Date: Thu, 16 Mar 2000 21:27:38 -0500
From: "The Weinsteins" <weinsteins@home.com>
To: <plburbank@kih.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65880] Re: Panel Labels
Message-ID: <007a01bf8fb8$5d56fe80$ba3b2a18@ym1.on.wave.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Pete:

Your posting reminded me that Tandy/Radio Shack sold clear mail labels (Product 26-247). I can't remember just how long ago I bought them. (Hint: they are on a 4-1/2 inch wide carrier with tractor-feed holes.) They are 3-1/2 by 15/16 inches with a pressure-sensitive adhesive back. I used them for addressing envelopes, especially the coloured ones that my printer loved to eat.

Chances are that you would need a lot of luck finding them; but who knows?

72 de Al, VE3HVX
QRP-L #787

----- Original Message -----
From: "Pete Burbank" <plburbank@kih.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, March 16, 2000 8:01 PM
Subject: HB: Panel Labels

(snip)
> The recent thread about labelers got me thinking and I realized
> that my dusty Brother Word Processor could be used if I could
> find a clear tape that held the typing ink.
(snip)
> 73 Pete NV4V

Date: Thu, 16 Mar 2000 18:56:40 -0800
From: Jerry Parker <jparker@fix.net>
To: qrp-l@LeHigh.edu
Subject: [65881] NB6M Paddles
Message-ID: <2.2.32.20000317025640.00b5c974@fix.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

RE: Joe Reed <joe@n9jr.dyndns.org> wrote:

   Subject: NB6M Paddle Construction Hint
   After the March QST featured the NB6M paddles,
   previously seen on the NorCal site, and while
   awiting the DSW-40 I had my annual physical.

****

Hi Gang,

heres the Deal. If you have built your own set of
paddles, send me a short discription of your
masterpiece together with a picture.

I will put them up on on the NorCal Page along
with the original NB6M Paddle Construction Article
to share with everyone.

If you have built a different style key, paddle etc
using the same or simular construction techniques
please send them to me and we will put them up also.

Great going Joe!

72 all,,,Jerry...WA6OWR...K

Date: Thu, 16 Mar 2000 18:37:02 -0800
From: rhickman@sunwave.net
To: "QRP List Posting" <qrp-l@lehigh.edu>
Subject: [65882] WTB: Showa 9MHz SSB Filters
Message-ID: <006601bf8fb9$af0008c0$323c3cc7@sunwave.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've received a set of PC boards to build a 'California Board' QRP SSB
transceiver (published in QRPp in the fall of 1995) and have sourced all of
the parts except a Showa 9MHz SSB filter. Does anyone have a couple of the
Showa filters they'd like to sell?

Failing that, does anyone know where to buy the Showa filters or if there is
a suitable substitute where I can get them?

Thanks in advance,
Robin Hickman
VE7HMN

Date: Thu, 16 Mar 2000 19:45:23 -0700
From: "Mark M." <markem@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [65883] OT: Re: Irridium Story
Message-ID: <3.0.6.32.20000316194523.007b9bc0@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 19:00 03/16/2000 -0700, James R. Duffey wrote:
> ...
>Satellites are typically deorbited after their useful life is reached to
>avoid putting more space junk in orbit. It must be sad for those who put
>a good part of their technical career into Irridium only to see it come
>to this ignominious end.
>
Ya know, this is the part that the bean counters just don't get. Real techies (which I consider myself to be) above (almost) all, want to be involved in something worthwhile and challenging. The money is nice but not the only thing. To be involved in something like Iridium, or a Mars lander, or a bleeding-edge microprocessor, or whatever is a big motivator to a techie. The bean counters look only at the bottom line and have little appreciation for anything else. I know that a lot of people were very wrapped up in Iridium and they made some very significant accomplishments. Never have so many satellites been designed, built, and launched in such a short time. To get them all working together along with Earth stations was quite a challenge. It was technically a very good system but it was poorly timed and marketed, among other things. It's a real shame and a huge waste. I've been involved in projects that I and a lot of other folks put a lot of ourselves into that were canceled through no fault of ours so I can imagine how the Iridium folks must feel. What a shame...

Something of a disclaimer...I work for Motorola but had nothing to do with Iridium, altho I know some people who did...

Mark AA7TA

Date: Thu, 16 Mar 2000 20:58:03 -0600
From: "Bill Allen" <bill@pcatexas.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65884] Re: Iridium goes QRT
Message-ID: <003501bf8fbc$9e404920$91bac1d0@ourtown.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I wonder if we will be able to do some meteor scatter off of the incoming
Iridium 66???

:-)

73
KC5ADF
Bill Allen

Date: Thu, 16 Mar 2000 19:53:45 -0700
From: Bruce Grubbs N7CEE <n7cee@arrl.net>
To: qrp-l@LeHigh.edu
Subject: [65885] FOX: K2 mojo is real, I guess
Message-ID: <3.0.5.32.20000316195345.009b3c00@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This was my first foxhunt. I've meant to participate, but "things" seem to
get in the way. Anyway, NA6E answered me on my first call. Thanks, Mary!

73 all

Bruce N7CEE
n7cee@arrl.net

Date: Thu, 16 Mar 2000 21:25:58 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>

Subject: [65886] Extra at last!
Message-ID: <004f01bf8fc0$8727f9a0$05987b7b@CSS0048.bergenbrunswig.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Did it tonight. Written test aced, and passed - by the skin of my teeth -
the 20 wpm CW test.

Now I can put away the study material and spend more time in the air. Look
for me signing "/AE" a lot. I hope.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
    e-mail to: dandooley@pipeline.com
May Goddes love blest ye alle
SOC#198
"Ancient Pistol, I do partly understand your meaning."

Date: Thu, 16 Mar 2000 22:32:27 EST
From: K1JD@aol.com
To: na6e@qsl.net, qrp-l@lehigh.edu
Subject: [65887] Re: [FOX]: 3/17 (thursday nite)
Message-ID: <62.1c3ac0e.2603014b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Mary:

  Thanks for the pelt!!

  Excellent K2 signal, S5-6 & solid copy when free of the cyclical, 6+ Khz
wide digital/jammer that came and went during the hunt. It's LOUD here in the
NE (especially with the AGC off - ouch), and it came on again right after I
gave you my exchange.

73,
John K1JD QRP-L #1945
Jamestown, RI
http://hometown.aol.com/k1jd/index.html
K2's #139 & 583 (#917 delivered, #948 in progress)

Date: Thu, 16 Mar 2000 22:35:41 EST
From: RangerSF5@aol.com
To: FOX_TANGO@qth.net, QRP-L@lehigh.edu
Subject: [65888] FS FOX TANGO EXTERNAL ANT. TUNER
Message-ID: <e8.2ad16d2.2603020d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
I'm posting this for a friend.
He wants to sell a FC-757-AT External antenna tuner,Mint condition,in box
with manual.
Covers 1.8 high and low,3.5,7,10,14,18,21,24.5,and 28 MHZ.
He's asking $300.00 but no one seems to know what the value is so he went by
the prices of a built in unit and external units.
If it's way out of line then please let me know.
Thanks.
Bob.....aka Vegas
WA2HOQrp <tm>

Date: Thu, 16 Mar 2000 22:40:55 -0500
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: rhickman@sunwave.net
Cc: qrp-l@lehigh.edu
Subject: [65889] Re: WTB: Showa 9MHz SSB Filters
Message-ID: <3.0.1.32.20000316224055.007aec60@pop.prodigy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:37 PM 3/16/00 -0800, you wrote:
>I've received a set of PC boards to build a 'California Board' QRP SSB
>transceiver (published in QRPp in the fall of 1995) and have sourced all of
>the parts except a Showa 9MHz SSB filter. Does anyone have a couple of the
>Showa filters they'd like to sell?
>
>Failing that, does anyone know where to buy the Showa filters or if there is
>a suitable substitute where I can get them?
>
>Thanks in advance,
>Robin Hickman
>VE7HMN
>

Robin.....check with the GQRP club. If I remember correctly, they bought a ton of those back when they were first available. Also, Derry Spittle of Epiphite fame may know where there are some out in your area of Canada.

I have 4 of them stashed away for future projects. Got mine from the same guy the GQRP gang bought from. He was at Dayton 2 years ago. Did not see him last year.

72 and GL......Jim, K8IQY

Date: Thu, 16 Mar 2000 21:09:13 -0700
From: Ray Colbert <af852@rgfn.epcc.edu>
To: w1rfi@arrl.org
Subject: [65890] RE: QRP operating articles?
Message-ID: <38D1AFE9.25472870@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The way I see it, the QRP attitude (which Al must have
already) is there first, then the qrp practices come next,
followed by ingrained habits followed by the trip to the
ultimate of milliwatting.
--
"The more I see of the representatives of the people,
the more I admire my dogs."
letter from Count d'Orsay to John Foster 1850

Ray Colbert, W5XE, OOTC#3618, SOWP#1064M NARTE-NCT2 SOC#78
(also w5xe@juno.com   El Paso,(FAR WEST) TEXAS

Date: Thu, 16 Mar 2000 22:07:21 -0600
From: "George T. Baker" <w5yr@att.net>
To: qrp-l@Lehigh.EDU
Subject: [65891] Tail End Charlie!
Message-ID: <38D1AF79.F247A1@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

In all the Fox hunts over the past two years I have never had the pleasure of being the first Hound to nail a pelt.

But tonight I had the dubious honor of outlasting everyone else to become
the *last* Hound in this hunt to score at 0359Z.

Many thanks to Mary for an outstanding signal and operation. Absolutely
perfect from this end, despite the long time it took to get a contact.
She has set a great example for all future Foxii.

And that K2 sounded just like music . . .

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556

Date: Thu, 16 Mar 2000 20:15:50 -0800
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65892] RE: FOX: Tonights hunt
Message-ID: <LPBBKMHGKJHAFCHLDJBAIECACEAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

That was the greatest fun and I wish I could have dug everyone out of the
noise. Thanks for sticking around. Will post the log in a few and sorry
for the post that I was going to be on 4100...there were times I wished I
was :)

73
Mary, NA6E
Sacramento, CA
QRP-C #7   QRP-ARCI #9923   WHINER'S #2

Date: Thu, 16 Mar 2000 20:42:57 -0800
From: "Frank Grigaliunas" <fgrig@iea.com>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [65893] Re: Kits: Best Bang for the buck-EMTECH
Message-ID: <E12VohG-00024i-00@dfw-mmp1.email.verio.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I have to second Alan on this. When I was first planning to get my Novice license, I looked around and compared all the rigs I could find. The Emtech struck me as having the most features for the money, and I built it easily and used it to make my very first contact. I'm still using it today, and it's still a champ!

73,

Frank, AB7YT

       Frank and Karen Grigaliunas, 1816 W. Dean, Spokane, WA 99201
   fgrig@iea.com -=*=- (509) 326-7147 -=*=- http://www.iea.com/~fgrig/
       "The Internet doesn't annoy people. People annoy people."

> From: ARDUJENSKI@aol.com
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Subject: Kits: Best Bang for the buck-EMTECH
> Date: Thursday, March 16, 2000 5:45 PM
>
> There are a lot of newer and improved rigs, but the EMTECH NW series was
> ahead of its time and still is a great performer. It had very few problems,
> clean signal and super filtering. It was and still is in many cases one of
> the few that covered the whole cw spectrum. I am not sure why it never
> received the support the other rigs get in this forum (although I can
> surmise).   Roy--you did a great job-hats off for a job well done. Thanks

> Scott for continuing with your Dad's line. Alan KB7MBI

Date: Thu, 16 Mar 2000 23:52:15 -0500
From: "Stephen D. Cohen" <scohen@tampabay.rr.com>
To: "QRP-L Mailing List" <qrp-l@lehigh.edu>
Subject: [65894] OT: Irridium Story
Message-ID: <NDBBJALMDCJHFFPJMMFKGEAICGAA.scohen@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

     I wonder what it would cost, on an ongoing basis, to monitor the Iridium satellites. It would seem to me that if you could buy the existing

constellation for a song (say, oh, $1) and keep it in orbit, you could offer the service dirt cheap.

I find it hard to imagine that these birds will be deorbited. Time will tell.

73,

Steve, N3OIE

P.S. Anybody have any idea what monitoring of the Iridium 66 would cost?

Date: Thu, 16 Mar 2000 21:42:08 -0800
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65895] FOX: NA6E log
Message-ID: <LPBBKMHGKJHAFCHLDJBAAECDCEAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here it is...6 It looks like propagation was good into Missouri and of course to those "pesky" Texans. I do have another qso that wasn't added. Can't read my writing...it was at 0240. So Roy, send me a note :)

202	KB7WW	559	OR	ART	290
203	WE6W	599	CA	ED	1068
205	K0EVZ	569	ND	DOC	861
207	N6WG	579	CA	BOB	26
209	K1MG	599	CA	MIKE	614
211	NQ7X	559	AZ	FLOYDD	343
213	N1LN	579	TX	BRUCE	2049
214	VE6EWM	559	AB	EARL	1076
216	K0YWD	599	MT	GEORGE	2003
217	N4ROA	559	VA	DAN	970
218	NK7M	599	AZ	BOB	271
220	W0RSP	559	SD	ADE	661
221	K5ZTY	559	TX	BILL	473
225	N5UW	559	OK	CLIFF	478
226	KI0II	559	CO	RON	928
227	K0PC	559	MN	PAT	1964

229	AB7CE	599	MT	ROY	1494
231	K8CV	599	MI	WALT	935
234	N5LU	559	OK	BILL	2009
235	N0EA	559	MO	WAYNE	1058
237	N7RR	569	WA	BRUCE	1688
238	K5LN	559	TX	BILL	1794
241	AC6UV	599	CA	GODY	1881
243	VA7NT	559	BC	PAUL	20
248	K1JD	559	RI	JOHN	1945
250	K4LL	559	KY	LEN	5W
252	N7CEE	559	AZ	BRUCE	1692
253	N0DT	559	MO	DAN	1004
254	W7ILW	559	AZ	HOWARD	2010
255	N0AR	559	MN	SCOTT	1455
256	W1HUE	559	ID	LARRY	228
300	VE5RC	559	SK	BRUCE	88
301	N0EA	559	MO	WAYNE	1058
302	N7CQR	559	OR	DAN	502
304	W0CH	559	MO	DAVE	618
305	N0EHW	559	MO	TIM	2047
309	AB0GO	599	CO	DAVE	785
310	NW7DX	579	WA	BEN	1892
312	K7GT	589	CA	ALLAN	1016
315	N9AW	459	WI	JERRY	1271
317	WS4S	439	TN	CONRAD	993
319	KB7LJP	599	OR	JAMES	1296
321	WD8KQY	559	OH	GARY	446
322	W9UQB	559	AZ	MIKE	413
325	N5IW	559	TX	DAVE	1718
327	K5AAR	559	OK	DON	1512
329	W4NJK	579	CA	CHARLIE	2075
331	AF5Z	579	TX	BOB	984
333	N1TP	559	FL	TOM	1317
336	N5EN	559	TX	STEVE	2071
339	AF4PS	559	FL	MAC	704
342	N5GJQ	569	LA	MIKE	5W
343	K1OJ	559	TX	OJ	732
346	AK1P	579	CA	PAUL	284
347	N9SSA	449	MI	PETE	2109
349	KQ5U	559	TX	TERRY	1603
352	KD5KMN	559	TX	MIKE	1328
354	K5JHP	449	TX	BILL	825
357	KC1FB	559	CT	JIM	29
358	W0JOE	559	MO	JOE	1901
359	K5UP	559	OK	GLEN	21
403	W5YR	559	TX	GEORGE	1373

73
Mary, NA6E
Sacramento, CA
QRP-C #7   QRP-ARCI #9923   WHINER'S #2

Date: Thu, 16 Mar 2000 23:20:32 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Bruce Kizerian <kizerian@ced.utah.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65896] Re: HB: Low Phase Noise VFO
Message-ID: <Pine.SUN.4.10.10003162258160.18051-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 16 Mar 2000, Bruce Kizerian wrote:
> Does anyone have any good input or designs for building a
> low phase noise VFO for in the 28Mhz range? Working on
> another receiver project and could use some help with this.

The problem with building a tunable oscillator (VFO) at 28MHz will primarily be stability. Normally for stability, some phase locked technique would be utilized to ensure stability, and phase locked loops also improve the phase noise. Since phase noise is the "close-in" sideband noise power next to the carrier, obviously for good phase noise, you want to limit the extent of the close-in sideband power. Phase locked loops do this inherently, since as soon as the oscillator moves a bit beyond the desired carrier frequency enough for the phase detector to notice the shift, an error signal is generated to bring the oscillator back. This keeps the close in power fairly constrained ... the extent of which is determined by the characteristics of the loop (that is, response time, loop bandwidth, etc.) So these PLL's and DDS oscillator systems out there, many capable of very high frequency synthesis, generally have good phase noise specs. Usually less than a couple of degrees.

Of course, PLL's are more expensive than your classic colpitts oscillator most of us use.

An alternative approach, and fairly cheap, is to build a very stable low frequency oscillator, say in the 2-3 MHz range with the tuning range you desire, say 100KHz. Use good capacitors, temperature stable inductor(s), buffer the output of the VFO at least with some buffering or emitter follower stage, AND SOME FILTERING. This is something few of

us do in our QRP rigs. By applying the output of the VFO to a tune circuit/bandpass filter/or even low pass filter, you attenuate the harmonic power. This sure makes the output of your mixer look nicer and reduces intermodulation distortion (IMD) products. It also improves the phase noise. It should also be terminated into some known load. This is why in commercial equipment, you will see a 6dB attenuator or such following the local oscillator, and another following the mixer (see the NC20/RH20 schematic!). This properly terminates the impedance, making it more phase stable, contributing to better phase noise.

Now take your 2-3 MHz VFO and multiply it up to 28MHz. Or even better, mix it with high frequency crystal oscillator. For 28MHz, you could mix a 4MHz VFO with a 24 MHz crystal oscillator. Crystal oscillators have very low phase noise; less than your VFO. So the phase noise from the low frequency VFO will then dominate and be pretty much what your resultant phase noise would be at 28MHz. If you multiply a VFO up to 28MHz, both the drift and phase noise will be multiplied as well.

For mixing the VFO and XTAL oscillator together, you could use a simple one-transistor circuit where the VFO is applied to the base and the XTAL to the emitter (emitter injection) and some post filtering.

> As usual, I will share what I learn with the group.

Yes, please do Bruce, especially if you build anything. It's always fun following your progress and projects on QRP-L. Good work, and I'm sure many enjoy your posts as well.

72, Paul NA5N

Date: Fri, 17 Mar 2000 00:09:13 PST
From: "Leon Heller" <leon_heller@hotmail.com>
To: kizerian@ced.utah.edu, qrp-l@Lehigh.EDU
Subject: [65897] Re: HB: Low Phase Noise VFO
Message-ID: <20000317080913.64963.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

> > Does anyone have any good input or designs for building a
> > low phase noise VFO for in the 28Mhz range? Working on
> > another receiver project and could use some help with this.
> > As usual, I will share what I learn with the group.

DDS techniques give pretty good phase noise performance, and you won't get
any stability problems.

73, Leon

--
Leon Heller, G1HSM
Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221
InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,
NN12 6AD, United Kingdom.
Email:leon_heller@hotmail.com
Web page: http://www.geocities.com/SiliconValley/Code/1835

Date: Fri, 17 Mar 2000 05:16:52 -0600
From: "Michael" <steam@megsinet.net>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65898] Re: Kits: Best Bang for the buck-EMTECH
Message-ID: <004401bf9002$6039d380$2c56d6d8@megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just finished the OHR WM-2 qrp wattmeter. Great kit.
I ordered the Emtech NW-40 and qrp tuner a couple
weeks ago. Can't wait to get going on them, if they
ever get here!!!!
<>>< ><<> ><<> <>>< ><<> <>>< <>>< ><<> <>>< <>>< ><
                      Mike Pender   Chicago   N9IVO
 steam@corecomm.net http://www.megsinet.com/~steam
><<> <>>< <>>< ><<> <>>< ><<> ><<> <>>< ><<> ><<> <>

Date: Fri, 17 Mar 2000 06:39:35 -0800

From: Howard D Rubin <n3fel@juno.com>
To: qrp-l@lehigh.edu
Subject: [65899] Receiving loops
Message-ID: <20000317.063940.-256411.0.n3fel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

List'ers,

I'd like to get information on tunable receiving loops.

Anyone have links, reference pointers or a collection of qrp-l messages
on the subject?

Howard Rubin, N3FEL
Penn Wireless Association
Bucks County, Pennsylvania

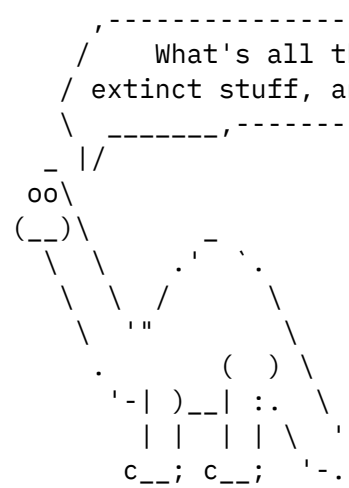
Date: Fri, 17 Mar 2000 06:00:25 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Howard D Rubin <n3fel@juno.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65900] Re: Receiving loops
Message-ID: <Pine.BSI.3.96.1000317055922.12208C-100000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 17 Mar 2000, Howard D Rubin wrote:

> I'd like to get information on tunable receiving loops.
>
> Anyone have links, reference pointers or a collection of qrp-l messages
> on the subject?
>

I have a list of references on loop antennas in the technical
bibliographies on my web page at:

http://www.primenet.com/~ctrask



High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
http://www.primenet.com/~ctrask

Graphics by Loek Frederiks

Date: Fri, 17 Mar 2000 08:13:04 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:dandooley@pipeline.com" <dandooley@pipeline.com>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.edu>
Subject: [65901] Extra at last!
Message-ID: <200003170816_MC2-9D6D-212F@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
charset=us-ascii
Content-Disposition: inline

Dan:

Man alive, this is FANTASTIC, Dan :-). Wow. Congratulations on this signal (sic!) achievement.

72,
--Doc Lindsey/K0EVZ
DSBF

PO BOX 6028
Bismarck, ND 58506
K0EVZ@arrl.net

Date: Fri, 17 Mar 2000 07:23:43 -0600
From: Michael Melland <badger@vbe.com>
To: qrp-l@lehigh.edu, homebrew@qth.net
Subject: [65902] [Help - TestGear] Mineral Oil for Load
Message-ID: <38D231DF.4420F03C@vbe.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

While not strictly QRP..... I do use this for working on my QRP rigs
so......

I recently purchased a Bird Termaline Load. I'd like to replace the
"oil" and Bird tells me it's "refined mineral oil". Is this different
then the mineral oil one can find in a pharmacy ? It looks thinner.....
but then the oil I'm comparing it to which is currently in the load is
pretty old.

Thanks,

73 de Mike, W9WIS

--
Michael Melland, W9WIS
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281, QRP-L #1656,
QRP-ARCI #9875, AK/QRP #478, NorCal,
NJ-QRP #214, SOC #142, Cheeseheads QRP Club
CW, SSB, and Electronics
List Administrator: grundig@qth.net
http://www.qsl.net/w9wis

Date: Fri, 17 Mar 2000 08:43:36 -0500
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [65903] Re: HB: Low Phase Noise VFO
Message-ID: <125490A005E3D3118C9C00805FC743CC041B81@mail.arrl.org>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"

DDS phase noise performance depends on the reference oscillator. I've
actually seen someone assume that a cheap clock oscillator had good phase
noise performance--in reality DDS was using a cheap PLL for a reference.
The performance was noticeably inferior. 73--Zack W1VT

Date: Fri, 17 Mar 2000 07:05:42 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>, <ki6ds@hotmail.com>
Subject: [65904] Re: Kits: Best Bang for the buck under $100
Message-ID: <002401bf9019$e2d8bba0$5448460f@snp.webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

>By the way, anyone know of a mod to the DSW?? As far as I know, there are
>none!!! Think about that one folks. What a tribute to the engineering job
>of Dave Benson, NN1G. Every other rig that I can think of that has come
out
>in the past 4 or 5 years has had several mods done to it, but that has not

I agree the DSW is a fine design.

 However in the true spirit a of QRP HBer I decided that on my DSW 40 I
preferred just a little tighter filter. Especially on 40m, it's really
helpful to have a little more filtration to slice out those weak QRP sigs
if ya know what I mean. Don't get me wrong here the DSW is excellent w/stock
3-pole xtal filter and QSO-ready! But w/4-pole or 5-pole it's even better.
IMHO

And It wasn't very hard ...I just fooled w/some caps and matched xtals on a
seperate little board till it sounded good. (I also learned a little about
xtal filters - imagine that!) I carefully removed the stock xtals and
inserted my 4-5 pole hybrid PCB in their place.

My point, I guess there's always sometheing you can improve on in any rig
given enough desire and time. But you have to ask yourself is it worth it
and do I want to alter the "value" of the rig by messing w/it?

One CAUTION: is it was little difficult to get the offsite back on freq!

Good Luck Steve/n0tu

Date: Fri, 17 Mar 2000 09:10:13 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "Lau, Zack, W1VT" <zlau@arrl.org>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65905] RE: HB: Low Phase Noise VFO
Message-ID: <125490A005E3D3118C9C00805FC743CC08D47C@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Zack Lau writes:

> DDS phase noise performance depends on the reference
> oscillator. I've actually seen someone assume that a
> cheap clock oscillator had good phase noise performance
> --in reality DDS was using a cheap PLL for a reference.
> The performance was noticeably inferior.

And that can happen even to the most learned and astute people -- Zack is citing a recent incident in the ARRL Lab. Won't tell you which ARRL Lab Dad was involved...

Actually, the DDS was a submitted construction project and I had assumed that the little oscillator in the metal can was crystal controlled. Zack wisely pointed out that it was probably a PLL that could be easily programmed at manufacture to operate on any frequency (within its range). Even though noisy, it is quite good enough for its intended use -- as a reference oscillator in a digital/computer circuit. Not good enough for use as a reference oscillator for a transmitter or receiver local oscillator. When we retested the DDS project with one of our HP-8640s as a local oscillator, it was very clean, indeed.

Figured I would 'fess up because I expect that others may not know that those little oscillators in the metal cans with DIP or surface-mount pins are probably noisy PLLs, not clean crystal oscillators.

73 from ARRL HQ,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St.

Newington, CT 06111
860-594-0318
Internet: w1rfi@arrl.org
ARRL Web: http://www.arrl.org/.
ARRL Technical Information Service: http://www.arrl.org/tis.

-----Original Message-----
From: Lau, Zack, W1VT [mailto:zlau@arrl.org]
Sent: Friday, March 17, 2000 8:44 AM
To: Low Power Amateur Radio Discussion
Subject: Re: HB: Low Phase Noise VFO

DDS phase noise performance depends on the reference oscillator. I've actually seen someone assume that a cheap clock oscillator had good phase noise performance--in reality DDS was using a cheap PLL for a reference. The performance was noticeably inferior. 73--Zack W1VT

Date: Fri, 17 Mar 2000 09:10:53 -0500
From: "Pete (N9SSA)" <n9ssa@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65906] Re: [FOX]: 3/17 (thursday nite)
Message-ID: <4.3.1.2.20000317091045.00afc520@mail.iserv.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I had that signal solid here in MI as well.

Started the hunt on my Backpacker II HB xcvr (http://www.arrl.org/members-only/prodrev/pdf/pr9311.pdf), but had a hard time finding the fox. I heard the hound pileup. I guess I need more practice listening.

So I did... I fired up the Yaesu @ 3w and listened and listened... found the fox, and monitored the QSOs.... I was amazed to see that the pile up seemed to be at 7042.4, when Mary was at 7042.2. After my "too close to the fox" conversation, I thought that was too close.

Well, I guess if the fox listens there, then you need to be there.

I finally got the fox after the pile up slowed down, and I went to 5 watts.

Fun hunt....

The next time the fox is in the midwest, I'm going to use my homebrew gear.... I promise!

At 10:32 PM 3/16/00, K1JD@aol.com wrote:
>Mary:
>
>   Thanks for the pelt!!
>
>   Excellent K2 signal, S5-6 & solid copy when free of the cyclical, 6+ Khz
>wide digital/jammer that came and went during the hunt. It's LOUD here in the
>NE (especially with the AGC off - ouch), and it came on again right after I
>gave you my exchange.
>
>73,
>John K1JD QRP-L #1945
>Jamestown, RI
>http://hometown.aol.com/k1jd/index.html
>K2's #139 & 583 (#917 delivered, #948 in progress)

N9SSA - Pete Hoffswell
Holland, MI - EN62wt - 42.79N 86.15W
n9ssa@arrl.net http://www.qsl.net/n9ssa
QRP-L #2109

Date: Fri, 17 Mar 2000 06:37:35 -0800
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65907] FOX: Corrected Log for NA6E
Message-ID: <LPBBKMHGKJHAFCHLDJBAGECJCEAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi all;

It seems I didn't hit the enter key for a bit after my last qso during the hunt. Here is the corrected log. Thanks again for all your help and the fun.

202	KB7WW	559	OR	ART	290
203	WE6W	599	CA	ED	1068
205	K0EVZ	569	ND	DOC	861

207	N6WG	579	CA	BOB	26
209	K1MG	599	CA	MIKE	614
211	NQ7X	559	AZ	FLOYD*	343
213	N1LN	579	TX	BRUCE	2049
214	VE6EWM	559	AB	EARL	1076
216	K0YWD	599	MT	GEORGE	2003
217	N4ROA	559	VA	DAN	970
218	NK7M	599	AZ	BOB	271
220	W0RSP	559	SD	ADE	661
221	K5ZTY	559	TX	BILL	473
225	N5UW	559	OK	CLIFF	478
226	KI0II	559	CO	RON	928
227	K0PC	559	MN	PAT	1964
229	AB7CE	599	MT	ROY	1494
231	K8CV	599	MI	WALT	935
234	N5LU	559	OK	BILL	2009
235	N0EA	559	MO	WAYNE	1058
237	N7RR	569	WA	BRUCE	1688
238	K5LN	559	TX	BILL	1794
241	AC6UV	599	CA	GODY	1881
243	VA7NT	559	BC	PAUL	20
248	K1JD	559	RI	JOHN	1945
250	K4LL	559	KY	LEN	5W
252	N7CEE	559	AZ	BRUCE	1692
253	N0DT	559	MO	DAN	1004
254	W7ILW	559	AZ	HOWARD	2010
255	N0AR	559	MN	SCOTT	1455
256	W1HUE	559	ID	LARRY	228
300	VE5RC	559	SK	BRUCE	886
301	N0EA	559	MO	WAYNE	1058
302	N7CQR	559	OR	DAN	502
304	W0CH	559	MO	DAVE	618
305	N0EHW	559	MO	TIM	2047
309	AB0GO	599	CO	DAVE	785
310	NW7DX	579	WA	BEN	1892
312	K7GT	589	CA	ALLAN	1016
315	N9AW	459	WI	JERRY	1271
317	WS4S	439	TN	CONARD*	993
319	KB7LJP	599	OR	JAMES	1296
321	WD8KQY	559	OH	GARY	446
322	W9UQB	559	AZ	MIKE	413
325	N5IW	559	TX	DAVE	1718
327	K5AAR	559	OK	DON	1512
329	W4NJK	579	CA	CHARLIE	2075
331	AF5Z	579	TX	BOB	984
333	N1TP	559	FL	TOM	1317
336	N5EN	559	TX	STEVE	2071
339	AF4PS	559	FL	MAC	704

342 N5GJQ 569 LA MIKE 5W
343 K1OJ 559 TX OJ 732
346 AK1P 579 CA PAUL 284
347 N9SSA 449 MI PETE 2109
349 KQ5U 559 TX TERRY 1603
352 KD5KMN 559 TX MIKE 1328
354 K5JHP 449 TX BILL 825
357 KC1FB 559 CT JIM 29
358 W0JOE 559 MO JOE 1901
359 K5UP 559 OK GLEN 21
359:45 W5YR 559 TX GEORGE 1373

73
Mary, NA6E
Sacramento, CA
QRP-C #7 QRP-ARCI #9923 WHINER'S #2

Date: Fri, 17 Mar 2000 07:55:26 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: w1rfi@arrl.org
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65908] Re: HB: Low Phase Noise VFO
Message-ID: <38D2475D.511BDF5@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Hare, Ed, W1RFI" wrote:

> Figured I would 'fess up because I expect that others may not know that
> those little oscillators in the metal cans with DIP or surface-mount pins
> are probably noisy PLLs, not clean crystal oscillators.
>
> 73 from ARRL HQ,
> Ed Hare, W1RFI
> ARRL Laboratory Supervisor
> 225 Main St.
> Newington, CT 06111
> 860-594-0318
> Internet: w1rfi@arrl.org
> ARRL Web: http://www.arrl.org/.
> ARRL Technical Information Service: http://www.arrl.org/tis.
>

Ed,
    I have been building a 6 meter transverter for my K2. The oscillator I chose first for this project was one of the programmable Epson SG8002 oscillators running at 22 Mhz. Unfortunately it was not acceptable for RF work. The sidebands (phase nosie) were not far enough down from the carrier and listening to the oscillator with a receiver showed they went out from the carrier for several 100 Khz. You could hear that familar "rushing" sound. Also, about every 20-22 Khz from the carrier, I could hear a small spur - probably comming from the PLL reference.
    I have replaced the programmable oscillator with a 11 Mhz PN2222 oscillator and a PN2222 doubler. It is much cleaner.

--
73, Jerry Haigwood, W5JH, Peoria, AZ USA
web page http://www.swlink.net/~w5jh/

Date: Fri, 17 Mar 2000 09:51:59 -0500
From: "Pete (N9SSA)" <n9ssa@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65909] SUMMARY: HB: 11M groundplane for Ham Bands?
Message-ID: <4.3.1.2.20000317094605.00c568a0@mail.iserv.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Thanks to all who responded to my query regarding 11M vertical.

Here's the responses, summarized:

- It will make a great 10M vertical. Very good for both SSB and CW. You would want to shorten the vertical length to 10M, using standard formulas from the handbook.

- Leave the ground planes alone... no need for any other type or radials.

- No, it won't make a good multi-band antenna, tuned or not. It will receive, but so will your gutter.

- Antenna placement: the higher the better.

Thanks everyone!

Check out my other posting regarding all-band verticals... that's what I really need... maybe not this 11M vertical...

At 03:09 PM 3/16/00, Pete (N9SSA) wrote:
>Howdy -
>
>I have the next antenna for the farm in mind. An old 11M ground plane
>vertical... I've had a couple of guys say that this will load through a
>tuner just fine, just don't go QRO! I'm really just looking for a nice
>omnidirectional receive to support my tri-band beam.
>
>Anyone have experience using an 11M ground plane on Ham bands?
>
>I'm not sure if it's 1/4 (18') or 5/8 (22').
>
>Can/should it be cut to another length?
>Tophat loaded?
>Ground mounted with good ground radials?
>Roof mounted, and use the stubby ground plane elements?
>
>I just can't seem to find any good info on the 'net, so I thought I'd ask
>my QRP-L buddies.
>
>73
>
>N9SSA - Pete Hoffswell
>Holland, MI - EN62wt - 42.79N 86.15W
>n9ssa@arrl.net http://www.qsl.net/n9ssa
>QRP-L #2109

N9SSA - Pete Hoffswell
Holland, MI - EN62wt - 42.79N 86.15W
n9ssa@arrl.net http://www.qsl.net/n9ssa
QRP-L #2109

Date: Fri, 17 Mar 2000 09:59:47 -0500
From: "Pete (N9SSA)" <n9ssa@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [65910] HB: All band vertical?
Message-ID: <4.3.1.2.20000317095159.00c56100@172.16.1.100>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Howdy!

I didn't word my original question regarding the 11M vertical very well. I

really am looking for an all-band omni-directional antenna to support my beam and long wires. If anyone has any ideas on a good all-band vertical, I'd appreciate it.

Here's what I have to work with:

Feedline: ladder line or coax OK, I have tuners available for both.

Support: 35' tower (Pretty full of dipole, zepp, and loop skywire...)
     10 trees, 90' high Half supporting the loop skywire.

I would rather use wire than tubing, as it's cheaper.

I do have an old 11 meter ground plane that I could salvage maybe 18 feet of tubing out of....

Suggestions?

N9SSA - Pete Hoffswell
Holland, MI - EN62wt - 42.79N 86.15W
n9ssa@arrl.net http://www.qsl.net/n9ssa
QRP-L #2109

Date: Fri, 17 Mar 2000 10:06:01 -0500
From: Laura Halliday <va3ldh@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [65911] Re: SCAF Filter Info Needed ..!
Message-ID: <38D249D9.98F7D959@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Andy GM0NWI asked:

> The project in question is the Denton Bramwell (K7OWJ)
> which appeared originally in the July 1995 of QST..
>
> Can anyone tell us where for definate, and how much, the
> IC`s..MAX295`s can be found from....??
> (snip...)

Try Farnell - they carry Maxim, but their online catalogue doesn't get along with my copy of Netscape. Grrr...

Maplin carried MAX293/297 until recently. Their online catalogue

lists them and quotes prices (3 quid each), but also says
"discontinued". It might be worth checking with them anyway.
--
Laura Halliday VA3LDH   "Laisse le vent tout emporter..."
Grid: FN03gs   - Foly/Viennet

Date: Fri, 17 Mar 2000 10:16:50 -0500
From: Laura Halliday <va3ldh@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [65912] Re: PSK-31: External sound cards
Message-ID: <38D24C62.5B778E73@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rod Johnson ka7you@juno.com wrote:

> I'm thinking I'd like to sample PSK-31. I have a couple of more or less
> unused 486 laptop computers, and would like to try PSK-31, but none have
> a sound card. Is there such a thing as an external sound card? Is there
> a PCMCIA sound card adapter?

PCMCIA is probably a better bet, but it's going to cost you (and, no,
I don't know of any offhand). An alternative would be an external
gadget that plugged into the parallel port - modern parallel ports
are easily capable of the data rates required, in both directions -
but that's a lot of design and development to make it work.

Another alternative would be an external Baycom-style PSK31 modem.
Do the Varicode and stuff in software, and then feed the bit stream
to some (pretty simple) hardware. On receive, use a PLL or a Costas
Loop or something - it's just BPSK. That too is still quite a bit of
work.

Yet another alternative is a cheap DSP eval board - I've seen (but
haven't tried) PSK31 for the ADSP-2181 EZKit Lite, the cheapest DSP
eval board I know of. It talks to the host over a 9600 baud serial
line. Probably not as cheap as you'd like, but probably cheaper than
PCMCIA-based sound. :-)

> An alternative might be to use an old 386SX-25, but I don't know if a
> 25 MHz processor running Win 3.1 would work with a sound card.

It will record and play back sound, but it won't be able to do much
processing - realistically, you need a 486 or better for PSK31.
--

Laura Halliday VA3LDH   "Laisse le vent tout emporter..."
Grid: FN03gs   - Foly/Viennet

Date: Fri, 17 Mar 2000 09:37:57 -0600
From: Jim Glover <psykey@okcforum.org>
To: qrp-l@lehigh.edu
Subject: [65913] RE: Tuna Tin II
Message-ID: <200003171537.JAA06461@okcforum.org>

T.J. "SKIP" AREY N2EI (tjarey@home.com) posted:

> I'm sure there is some logic to improving upon the basics but the whole
> point of the TT2, I feel, is an extremely low cost way to get on the
> air. You could add a dozen or so bell's and whistles to the rig and when
> your doen you would have a nice piece. I'm just not sure if it would
> still be a TT2 anymore. Just like there is Mojo in the K2, there is
> Spirit in the original TT2 design. Not a very scientific position, but a
> heck of a lot of fun.

Skip, I pretty much agree with your not-necessarily-scientific position.
After all, in addition to whatever else it is, amateur radio should be a
heck of a lot of fun. Extremely low cost ways to get on the air are, in
my opinion, one of the most important things that QRP-L has promoted over
the years. However, there's also some logic, in that same spirit, in
making incremental low cost improvements to a basic low cost piece such
as the TT2. The initial fun begins reasonably soon after the initial
investment. From the beginning, there's a balance of learning, building,
and having fun operating. With each mod considered, there is more learning,
and with each mod eventually implemented, more learning, more building, and
ultimately, more fun operating. Hmmm...come to think of it, all that
learning and building is half the fun, too!

--Jim WB5UDE

Date: Fri, 17 Mar 2000 09:38:54 -0600
From: "George T. Baker" <w5yr@att.net>
To: n9ssa@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65914] Re: [FOX]: 3/17 (thursday nite)
Message-ID: <38D2518E.FF086CBC@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

There is always one in every crowd:

After the Hunt, I ran a calibration check on the Kachina with WWV at 10 MHz. The dial frequency error was between zero and one Hertz which is the minimum tuning step for the Kachina. That optional High Stability Xtal must be working.

Mary was spot on 7041.190 KHz throughout the Hunt for a 700 Hz sidetone. That was verified by the frequency analysis function of the DigiPan program using the soundcard for FFT. WWV's tones measured 0.1 Hz high at 500 Hz and 600 Hz.

I finally worked her from 7041.690 KHz - and I do mean "finally" at 0359:45. I figured that eventually she would RIT up that far, and she did!

It matters not what the dials read - grabbing a pelt is the game - but I thought that you might be interested in a fairly accurate frequency check.

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

"Pete (N9SSA)" wrote:
  I was amazed to see that the pile up
> seemed to be at 7042.4, when Mary was at 7042.2.

Date: Fri, 17 Mar 2000 10:38:50 -0500
From: "The Weinsteins" <weinsteins@home.com>
To: <dandooley@pipeline.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65915] Re: Extra at last!
Message-ID: <007701bf9026$e4ea98c0$ba3b2a18@ym1.on.wave.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dan:

Well done! A FOC might have aced it on March 17, but there you go...

72 de Al, VE3HVX

----- Original Message -----
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, March 16, 2000 10:25 PM
Subject: Extra at last!

> Did it tonight. Written test aced, and passed - by the skin of my teeth -
> the 20 wpm CW test.
>
> Now I can put away the study material and spend more time in the air.
Look
> for me signing "/AE" a lot. I hope.
>
>
> Dan W. Dooley WB5TKA Bedford, Texas EM12ku
>   e-mail to: dandooley@pipeline.com
> May Goddes love blest ye alle
> SOC#198
> "Ancient Pistol, I do partly understand your meaning."
>
>
>

Date: Fri, 17 Mar 2000 09:42:37 -0600
From: "George T. Baker" <w5yr@att.net>
To: badger@vbe.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65916] Re: [Help - TestGear] Mineral Oil for Load
Message-ID: <38D2526D.F0F7C3CA@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

That "old" oil is probably as good as the day it was put in the unit,
provided that it does not have a burned "smell."

I would suspect that replacing it with conventional grocery-store mineral
oil would lower the power rating somewhat, but for QRP, who cares?

I have used a Heathkit Cantenna - filled with the dreaded transformer oil
- courtesy the local power company - since 1970. Hard to wear it out!
;^)

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556

Michael Melland wrote:

> I recently purchased a Bird Termaline Load. I'd like to replace the
> "oil" and Bird tells me it's "refined mineral oil". Is this different
> then the mineral oil one can find in a pharmacy ? It looks thinner.....
> but then the oil I'm comparing it to which is currently in the load is
> pretty old.

Date: Fri, 17 Mar 2000 07:56:48 -0800
From: Ed Loranger <we6w@qsl.net>
To: Ed Vines <evines@garlic.com>, Low Power Amateru Radio Discussion <qrp-l@lehigh.edu>, "hamjoel@juno.com" <hamjoel@juno.com>
Subject: [65917] Re: R/S Mic help
Message-ID: <38D255BF.76BF864E@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Ed, great lead-in to todays post I was going to
report.

Quick summary for "sped redders":
** K2 PTT works great with unamplified mike.

** Amplified mike overpowers VOX. Need attenuator
     control in output AF signal of mike.

** For PSK-31 etc, control rig at CW key jack which
     is the same as PTT. It is the "Dit" control line. Recommend
    manual input keying setting and control from computer.

----- full story below ----

Last night I wired up the mike as stated below. The
unamplified mike works fabulous with PTT and NO
Amplifer. HOWEVER, vox requires significant
voice power to trigger. Oh, also, my hunch about
adding a wire to make this microphone work with
VOX was correct -- you MUST bridge a wire
across the switch so the microphone is always

hot to pin 1, AF output. There are 3 screws to
remove on the mike and the internal glue holding
the wires may make it appear there is a 4th screw
but you can just pry it up and cut the rubber cement
string... I used a broad putty knife so as not to
scuff the plasic while opening the mike cover.

I'll get to your question about the pream mike purchase in
a second. Last night I built a little collector feedback
preamp. I figured at 2 milliamps Ic, the E-B junction would
be 13 ohms, not counting the input impedance reflection
divided by transistor beta on the overall emitter resistance,
a gain of 50 to 100 was my goal . With and AC output
impedance of 500 ohms (there is a 1 Kohm load in parallel
with the collector resistor), this was pretty close. I need to
select another Collector/base bias resistor as my guess
was too high. The preamp worked exellent and while
txing to a 50 ohm load, I listened on a gen-coverage
rcvr and sounded great at all compression levels.

HOWEVER, now the VOX circuit was way too sensitive....

So I swamped out the emitter more with a 27 ohm
resistor and may go up just a bit on that. I'll lower
the bias resistor and stop clipping when I SHOUT
into the mike :) The stock, unamplified microphone
is rated at .25 mV p-p, whereas the K2 requests
approx. 100 mV p-p signal. I found that the microphone
produces plenty of signal on the oscilloscope and the
K2 worked well with the .25 mV p-p so I didn't try
for 200 or more voltage gain.

I'll give some final values later. I used the white
wire inside the microphone to pick up 5 volts
from pin 6 of the K2 connector.

Back to the purchase of the amplified microphone
from R/S. Well, my experience with the other
K2, using my ICOM microphone with preamp
was that the VOX was overactive and needed to
be attenuated. Using SSA gain set to attenuate (1),
it was still too much for the vox.   (With speaker
on or general shack noises, dog barking in the
distance, etc...) It is disturbing to gently slide
the mike across the table and have the rig TX,
also, with speaker on and tuning the band the
mike signal overpowers and causes transmit loops
fedback from the speaker.

And changing R15
on the SSB board as suggested by manual, should
be a setting when conditions are really loud, like
operating the K2 in a noisy vehicle. I expect that
it is worth a try to get the amplified microphone and
see how it does at SSA level 2. (Mike gain =1) I
do expect though that it will be overdriven. On mine I'll
probably use a series resistance in the output to set
proper output signal and be done with it. Perhaps
you too can simply add a resistor inside the microphone
that will match the rig.

If you are not interested in having a well calibrated
vox setting and like PTT, the unamplified microphone
works great. In fact, another idea I had was to
switch the rig into Manual key mode and make
a small external vox circuit that keys the rig. You can
do this because the Dit line is also "PTT" on the K2, and
in manual keying mode, a dit or dah is the same....

Bottom line best solution? Well, A vox is something
you like to have a knob to set to the conditions, an
offboard unit with a mini modem speaker and vox
threshold knob would be great to key the rig or if
using computer with PSK-31/rtty etc, the obvious
keying choice is at the CW keyjack anyway and
you don't need vox.

Too bad I didn't use a 2n2222A transistor. I just
grabbed a known 250 MHz, hi-Beta Small signal
transistor in the junk box....

72/Ed we6w

Ed Vines wrote:

> Thanks Ed,
> I am going to try it also.
> What's your opinion on this mike needing a preamp.
> When i bought mine yesterday at R/S, I noticed they had an amplified mike
> for " a few dollars more".
>
> Tnx es 73
> Ed KG6WU in Gilroy
>
> At 08:18 AM 3/16/2000 -0800, you wrote:
> >Yes, that was my post. Last night I wired the configuration

> >jack straight across to the matching pins. That is 1:1, 2:2.
> >etc.
> >
> >I'll configure the microphone to work with that configuration
> >so that a future "Elecraft KM2" microphone if sold, will
> >be a direct connect.
> >
> >I haven't totally finished my review of the microphone so
> >take this with a grain of salt:
> >
> >I'll test this configuration:
> >MIKE   K2 JACK pin#
> >4   ---->   1 Audio out Hot
> >2   -----> 3 PTT
> >1 ------> 7 or 8 (ground) (Audio gnd.)
> >
> >For VOX, I believe I have to open the mike
> >and hardwire the microphone to be always
> >connected. I think there is a 4th screw hidden
> >under the model sticker.
> >
> >Should test it out by the weekend.
> >
> >Good Luck.
> >72/Ed Loranger we6w
> >
> >Ed Vines wrote:
> >
> >> Hi Ed,
> >> Was looking through the list earlier today and saw a post about an R/S
> >> Dynamic mike and 8-pin connector. Well, I deleted it but think it was you
> >> that posted it. I bought one today,not the amplified one, and am having
> >> trouble figuring out (translating) its schematic to elecraft terms.
> >> If it was not you, then I am hoping some kind soul on the reflector will
> >> steer me straight. My local R/S did have an 8-pin connector, but before I
> >> start surgery on the 5-pin din that came with the mic, I would like some
> >> advice on the wire assignments.
> >>
> >> Thanks for all your informative posts to the list.
> >>
> >> Ed Vines
> >> KG6WU
> >> Gilroy,CA
> >> SOC# 34
> >> K2-935
> >
> >--
> >72/Ed we6w; A-1 OP; SOC#63; QRPL#1068

> >http://www.qsl.net/we6w Santa Rosa, CA
> >Addicted to peanut butter and honey sandwiches!
> >
> >

--
72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
http://www.qsl.net/we6w Santa Rosa, CA
Addicted to peanut butter and honey sandwiches!

Date: Fri, 17 Mar 2000 09:56:57 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [65918] fox hunt #37 - KQ5U -
Message-ID: <Pine.LNX.3.95.1000317095514.19895A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot to give KQ5U a point for being the fox for this hunt....so the
Houston Hounds had a score of 108 + a Clean Sweep for this hunt....thanks
Bill!

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
          A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Fri, 17 Mar 2000 08:28:44 -0800
From: Allan G Taylor <agtaylor@llnl.gov>
To: qrp-l@Lehigh.EDU
Subject: [65919] Re: LZ-bound K2 to be checked out tonight.
Message-ID: <38D25D3C.34D5@llnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

K2 S/N 526 has now bagged a FOX. Also worked a few UAs and some
W6/K6 stations. All reports are perfecto, so it goes back in the
bubblewrap entombing and then to Bulgaria. I will be on a bit again
tonight (0100-0230Z) on 20, 30, 40m.

GT

--
Allan Taylor K7GT agtaylor@llnl.gov
DXCC/40CW DXCC 2000 Millenium award
SOC #6 QRP ARCI #10146 HI/QRP #93

Date: Fri, 17 Mar 2000 10:38:01 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [65920] FOXHUNT:Team Scores
Message-ID: <Pine.LNX.3.95.1000317102933.22705A-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'll include the K8DD/C6A fox hunt after the AB7CE hunt.
Please send any corrections to me as usual...thank you...
****
..DON'T FORGET FOXII, SEND YOUR "FINAL LOG" TO ME AS WELL
AS TO PAUL...that will be a big help...thank you all....

****

Fox Hunt 39 - NA6E -

****

20th. MAINE BENGAL BEARS:Total=14

Jim - N5IB
Butch - N5SMQ
Bill - NT1R
Joel - KE1LA

BLUE J's:Total= 16

John - VE3JC
Jim - VE6JWA
Jeff - VA3JFF
Jon - TF3JA

EMPIRE HOUNDS:Total=22

Dick - K2JQ
Kevin - N2TO
Mark - N2JTW
Nick - KF2PH

HOUSTON HOUNDS:Total=110

Bill - K5ZTY <-
Bill - W5SB
Terry - KQ5U <-

MANGY MUSHERS:Total=88

Pete - NV4V
Paul - VA7NT <-
Bruce - N7RR <-

Dan - KK5LD

Ed - K1VP

NIGHT OWLS:Total=60

Ed - WE6W <-
Rich - N5JI
Dan - N7CQR <-
Ben - NW7DX <-

OKLAHOMA TORNADOS:Total=75

Cliff - N5UW <-
Royce - KE5TC
Don - K5AAR <-
Gody - AC6UV <-

RAIDERS OF THE LOST RF:Total=66

Fred - VE3FAL
Earl - VE6EWM <-
Mary - NA6E <-
Bruce - VE5RC <-

SCATTER SHOT GUNNERS:Total=86

Mike - K1MG <-
Jack - W5TFB
Stan - N6XU
Pat - K0PC <-

SFBA FOGHORNS:Total=26

Bob - N6WG <-
Conrad - NN6CW
Andreas - N6NU
Allan - K7GT <-

SWAMP RATS:Total=118

Tom - N1TP <-
Mac - AF4PS <-
Fred - W2XN
Paul - AJ4Y

SWORDS:Total=62

Rick - WB6JBM
Andy - KC8KFI
Doc - K0EVZ <-
Dan - N8IE

TEAM CRAMP.COM:Total=53

OJ - K1OJ <-
George - K5VUU
Mike - K5NZ
Eric - NM5M

TEAM ScQRPion:Total=103

Floyd - NQ7X <-
Gary - AB7MY
Conard - WS4S <-
Bob - NK7M <-

TESLA'S TERRORS:Total=139"Sweep"

Wayne - N0EA <-
Dan - N0DT <-
Tim - N0EHW <-
Joe - W0JOE <-

TEXAS TARANTULAS:Total=101

Bill - K5LN <-
Dave - N5IW <-
Bob - AF5Z <-
Tom - N5TW

UNDERDOGS:Total=112

Roy - AB7CE <-
Dan - N4ROA <-
Brian - KB9BVN
Ron - KI0II <-

WESTERN WRANGLERS:Total=49

Randy - K7TQ
Chuck - K7QO

NORTEX Irregulars:Total=15

Doc - W5TB
Joe - KK5NA

Steve - WW7Y
Ron - KU7Y

Don - N5YAK
Barb - KK5QA

...72 - Bruce(VE5RC+VE5QRP)

Date: Fri, 17 Mar 2000 12:00:33 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [65921] RE: HB: Low Phase Noise VFO
Message-ID: <200003171639.LAA10279@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> DDS phase noise performance depends on the reference oscillator. I've
> The performance was noticeably inferior. 73--Zack W1VT

That got me curious about the $2.00 Vishal/Dale 25 Mhz clock osc I
used on my DDS boards. I just cut one open and it is indeed a true
xtal osc running at 25 Mhz. That's a relief..

BTW, I was reading in ED the UHF wireless market is driving the need
for low jitter oscillators and there is now a new process of making
VHF xtal oscillators. It's called an "Inverted Mesa", where they
leave the edges of the xtal thick for support and etch out the
center. They can make fundimental mode xtals over 100 Mhz with this
technique and using 5th overtone mode, have outputs over 500 Mhz.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Fri, 17 Mar 2000 12:37:34 -0500
From: "Scott Hotchkiss" <w4pj@bellsouth.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65922] Re: All band vertical?
Message-ID: <006001bf9037$7b9c38e0$6cd64dd8@w4pj>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: Pete (N9SSA) <n9ssa@arrl.net>
Subject: HB: All band vertical?

> Feedline: ladder line or coax OK, I have tuners available for both.
>
> Support: 35' tower (Pretty full of dipole, zepp, and loop skywire...)
> 10 trees, 90' high Half supporting the loop skywire.
>
> I would rather use wire than tubing, as it's cheaper.
>
> I do have an old 11 meter ground plane that I could salvage maybe 18 feet
> of tubing out of....
>
> Suggestions?

I used an old R-7 (blown up) removed all the goo-gaws and added enough aluminum to make the radiator
33ft6inches tall. It was fed with 50 ohm coax till last hurricane season. I took all antennas down as Hurricane
Floyd approached. (Biggest dang storm I have ever EVER seen, and I've been a S.FL resident since '57)
I had origionally used a 2-wire counterpoise (also 33ft6inches each) with the whole antenna elevated about
15ft on a 20ft push-up pole. Worked like a cannon on 40m (monoband). Well, after the storms passed, I needed
to get an aerial back up and decided to use the vertical with 450 ohm plastic coated "window-line". It worked
pretty well on all bands from 40 to 10... a purely subjective analysis as I had become used to my large yagi at
65ft. Well, anyway, when I needed to work FO0AAA Clipperton on 80m, I decided to add another 33ft6inches
of wire to the top and made a kind of inverted L with 2 more wire radials of 67ft. Thing continued to perform
on all bands (now) from 80 to10m. So......

Here's an idea: Take the 11m gp and remove the matching coil at the base, add a cpl of tuned wires (for each band
of interest) for a counterpoise, attach as much wire to the top as practicable (hopefully enough to make the radiator
at least 67ft long), and elevate it, feeding with 450 ohm "window-line". I hung an insulator near the top of my 60ft
tower and strung the wire thru it to another insulator near the top of my 40ft tower. It kinda looked like a fishin'
pole with the aluminum bending like there was a fish on, and the wire stretching out like fishin' line. <Har!>

de (Scott) W4PJ (P.S. Got FO0AAA on all bands from 10 to 80)

Date: Fri, 17 Mar 2000 12:37:48 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [65923] suprize????
Message-ID: <20000317.123751.-228107.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

just make 3 40 mtr contacts with my antenna lying on the ground!!!! twin lead laying in the sneaux on the roof and my loop balled up and on the ground.... an't this qrp stuff radical???
Joel KE1LA
In Maine
wondering if he should put up the ant...

Date: Fri, 17 Mar 2000 13:28:06 -0500
From: "Richard Brummer, K2JQ" <obvious@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.edu>
Subject: [65924] Re: ATLANTICON: The Kite Thing (long-ish)
Message-ID: <003401bf903e$8b376a20$48685ed1@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Maybe we could plan a QRP/Kite event sometime?

Ya know, that sounds like a pretty neat thing to try at the annual club picnic !

73,

Dick K2JQ
Mahopac, NY

Date: Fri, 17 Mar 2000 13:36:55 -0500
From: "Richard Brummer, K2JQ" <obvious@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65925] Re: [Help - TestGear] Mineral Oil for Load
Message-ID: <004101bf903f$c60f63e0$48685ed1@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've been using my Cantenna, filled with mineral oil that my dad got from a
pharmaceutical supply house about 30 years ago.

No apparent problems up to 100W (per Heath recommendation).
I've opened the lid on occasion, and the stuff is still remarkably clear !

73,
Dick K2JQ Mahopac, NY

Date: Fri, 17 Mar 2000 13:39:26 -0500
From: "Victor Blackwell" <victor@brecnet.com>
To: <hamjoel@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [65926] Re: suprize????
Message-ID: <000e01bf9040$22834c40$485730d1@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You have just discovered the NVIS mode. As long as you are below the
critical freq it will work fine. My forty meter antenna is 7 feet off the
ground. I don't want anyone hanging on it. :-)

NVIS-Design-subscribe@onelist.com   come join us. We mostly operate qrp.

Vic AD8K

-----Original Message-----
From: hamjoel@juno.com <hamjoel@juno.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 17, 2000 12:32 PM
Subject: suprize????

>just make 3 40 mtr contacts with my antenna lying on the ground!!!! twin
>lead laying in the sneaux on the roof and my loop balled up and on the
>ground.... an't this qrp stuff radical???
>Joel KE1LA
>In Maine
>wondering if he should put up the ant...
>_____
>YOU'RE PAYING TOO MUCH FOR THE INTERNET!
>Juno now offers FREE Internet Access!
>Try it today - there's no risk! For your FREE software, visit:
>http://dl.www.juno.com/get/tagj.

Date: Fri, 17 Mar 2000 12:39:46 -0600
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: <dandooley@pipeline.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [65927] Re: Extra at last!
Message-ID: <00b801bf9040$2cab6540$702a0b3f@default>

Way to go Dan!

Mike in Minnesota

Date: Fri, 17 Mar 2000 14:29:53 -0500
From: osier <osier@northnet.org>
To: qrp-l@lehigh.edu
Subject: [65928] 10 meters ...WOW !!!!!
Message-ID: <38D287B0.EFDBC2EC@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All !!!

Just had a AMAZING qso !!!!
Worked Serge , UA3XDS from Kaluga , Russia ...started with 1 watt SSB
then slowly turned down the power (have a TT 290 step attenuator) ..gave
me a 59 at 1 watt and got it down to 50mW (gave me a 55 !!!) ... we
chatted from 1845 till 1905 all the time adjusting power ...meter is a
OH WM-1 that was calibrated last month ......dosent read peaks but you
can get a close reading from voice peaks ..rig here a TT 509 and antenna
a Ringo for 10 meters up 20 ft !!!!

LOVE 10 meters .... "its milliwatts or nothing !!!!"

73s , 72s , 74s !!!!!
George , N2JNZ/QRP...P

Date: Fri, 17 Mar 2000 12:42:04 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: osier <osier@northnet.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65929] Re: 10 meters ...WOW/PROP report
Message-ID: <Pine.SUN.4.10.10003171235110.20189-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 17 Mar 2000, osier wrote:
> Just had a AMAZING qso !!!!
> Worked Serge , UA3XDS from Kaluga , Russia ...started with 1 watt SSB
<snip>
> LOVE 10 meters .... "its milliwatts or nothing !!!!"
>
> 73s , 72s , 74s !!!!!
> George , N2JNZ/QRP...P

Great catch, George.

All the ham bands are in GREAT shape right now. Solar flux remains high
at around 180, meaning 10M should be cooking nicely, daylight hours.

The geomagnetic field has been VERY QUIET past few days, with A-index
in the 2-5 range (quiet conditions). This should continue at least
through the weekend.

So take George's advice and get on 10M this weekend and work some really neat QRP DX.

There is a very active sunspot region on the sun right now, almost on the solar meridian, that COULD produce major flares in the next couple of days. It is a BETA-DELTA group, meaning very strong, complex, and compact magnetic fields that often precede a major flare. SHould a major flare occur next few days, being in the very center of the sun, the shock wave would likely hit the earth. However, even if a killer flare occurs in the next few hours, it will be past the weekend before we are effected. Weekend conditions will be GREAT on all bands.

Have a nice week,
72, Paul NA5N

Date: Fri, 17 Mar 2000 14:44:14 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrpl_Submit (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [65930] NEED CD4560 IC...
Message-ID: <66FCE0D1DF76D311913800805F6D0FA3816A3B@mailserver1.usan.com>
MIME-Version: 1.0
Content-Type: text/plain

I have a QRP friend that's not on the qrp-l list that needs some help in finding a part. Hopefully one of you great folks can help him. I'll be glad to relay any info.

Sam AE4GX Atlanta, GA

.....I am looking for a CMOS digital IC CD4560, so far I have not located a source.
> Other designations: MSM4560RS, HEF4560. It is an NBCD ADDER, 16 pin DIP
> package.
> Used in the frequency display, PLL section of a Tokyo Hy-Power Labs HF 100
> series
> Mono-bander SSB/CW transceiver, early 90's vintage. If anyone knows where
> I can purchase
> these in the US please let me know! I need these to repair this radio.
> Thanks!
>   Bob....WA1EDJ/4.....
>

Date: Fri, 17 Mar 2000 12:49:26 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65931] Re: Iridium goes QRT
Message-ID: <Pine.SUN.4.10.10003171242400.20189-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
The majority of the information in my post yesterday about Iridium can easily be found on www.cnn.com and www.msnbc.com. It was all public information, not just well distributed through the media yet.

According to the msnbc story, it costs $50 million a month to run Iridium! That answers someones questions. Out of my price range -hi. And I thought *my* overhead was stiff!

It is a shame to see such technology come to an end. Just as many of us hams had a tear in our eye when the big maritime coastal stations shut down, then the Coast Guard stations, etc. ... it's always sad to see any communications system go QRT, whether we used it or not. And as someone else pointed out, it should have been recognized as an engineering marvel in that the system was designed, built, launched into orbit and working well in a relatively short period of time. Must be sad to all the engineers and technicians who put their blood, sweat and tears into the project.

72, Paul NA5N

Date: Sat, 18 Mar 2000 07:42:52 +1100
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65932] Re: OT: Irridium Story
Message-ID: <38D298CC.532A7295@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Stephen D. Cohen" wrote:

> P.S. Anybody have any idea what monitoring of the Iridium 66 would cost?

Steve,

Are you hinting the gangue at QRP-L go into the satellite business? Lotsa possibilities.

--
72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E
My FREE Newsletter:- mailto:vk2tip@qsl.net?Subject=Subscribe
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"
URL - http://www.integritynet.com.au/~purdic/

Date: Sat, 18 Mar 2000 07:54:12 +1100
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65933] Re: HB: Low Phase Noise VFO
Message-ID: <38D29B74.6343C103@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

On this topic Ulrich Rohde D2JLR provided some excellent articles to Ham Radio in the 1970's, I think I still have copies if necessary.

The topic is also covered in his book "Communications Receivers - principles and design" ISBN 0-07-053570-1 pages 324 - 329

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E
My FREE Newsletter:- mailto:vk2tip@qsl.net?Subject=Subscribe
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"
URL - http://www.integritynet.com.au/~purdic/

Date: Fri, 17 Mar 2000 16:05:46 -0500
From: Joseph Trombino Jr <joebarb@wilmington.net>

To: QRP-L@LEHIGH.EDU
Subject: [65934] New LDG Tuners
Message-ID: <3.0.6.32.20000317160546.007ad430@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow QRP'ers:

I was surfing the LDG web page <ldgelectronics.com> and noticed two new tuners from this company. One is a QRO version (AT-11MP) with a built in cross-needle meter and the other a QRP tuner (Z11).

Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas if this means these tuners can tune, say, an Extended Double Zepp cut for 40 meters (170 foot long flat-top), on all the bands from 80-10 meters???

72, Joe W2KJ (North Carolina)

Date: Fri, 17 Mar 2000 15:16:59 -0600
From: "George T. Baker" <w5yr@att.net>
To: joebarb@wilmington.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65935] Re: New LDG Tuners
Message-ID: <38D2A0CB.B072CB2B@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hard to say without knowing what vector impedance range the tuners can handle. The stated range could be resistive only or could be the magnitude of the impedance or ???. The best spec for something like this is a Smith Chart plot which shows the impedance range (actually an area) within which the tuner can establish a 50-ohm resistive match. A similar plot can be made to define the power-handling limits for a tuner.

I ran the same antenna as you with an MFJ 989C tuner and had no problems on 80 - 10. Actually it also loaded on 160 but I did not use it there. But, your results will depend upon how you are feeding the antenna (feedline Zo and length), its height, etc.

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

Joseph Trombino Jr wrote:
>
> Fellow QRP'ers:
>
> I was surfing the LDG web page <ldgelectronics.com> and noticed two new
> tuners from this company. One is a QRO version (AT-11MP) with a built in
> cross-needle meter and the other a QRP tuner (Z11).
>
> Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas
> if this means these tuners can tune, say, an Extended Double Zepp cut for
> 40 meters (170 foot long flat-top), on all the bands from 80-10 meters???
>
>   72, Joe W2KJ (North Carolina)

Date: Fri, 17 Mar 2000 16:18:12 -0500
From: Joseph Trombino Jr <joebarb@wilmington.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65936] New LDG Tuners
Message-ID: <3.0.6.32.20000317161812.007adcb0@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow QRP'ers:

I was surfing the LDG web page <ldgelectronics.com> and noticed two new
tuners from this company. One is a QRO version (AT-11MP) with a built in
cross-needle meter and the other a QRP tuner (Z11).

Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas
if this means these tuners can tune, say, an Extended Double Zepp cut for
40 meters (170 foot long flat-top), on all the bands from 80-10 meters???

                            72, Joe W2KJ (North Carolina)

OOPS!!! Here is the URL again, sorry for the boo-boo:-)

<http://www.ldgelectronics.com>

Date: Fri, 17 Mar 2000 16:22:02 -0500
From: "David Maliniak" <dmaliniak@vertical.net>
To: <njqrp@njqrp.org>, <qrp-l@lehigh.edu>
Subject: [65937] FS: NC20, St. Louis Tuner
Message-ID: <000001bf9056$d9da1ac0$0b01a8c0@vertical.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

One more time...these items aren't seeing any use so they may as well go to new homes. They're all built by me and are sold as is. I'm not too interested in trades at this time.

Will deliver to Atlanticon if you like, or even just bring them along for a look-see. Let me know.

1) NorCal St. Louis Tuner
Case painted red; front and rear panels white. With docs. $70 shipped CONUS.

2) NorCal 20 transceiver
Works FB. 10-turn tuning pot installed as are a bunch of AB7MY/W6EMD mods. Case is original unfinished aluminum. Max power output is right around 5W. With docs. $100 shipped CONUS.

72,
David N2SMH
Glen Rock, NJ

Date: Fri, 17 Mar 2000 13:23:42 -0800
From: Bill Jones <kd7s@psnw.com>
To: joebarb@wilmington.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65938] Re: New LDG Tuners
Message-ID: <38D2A25E.8CFFAE65@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joe and all,

There is no doubt that this group is a wealth of knowledge. But I'm curious why you didn't direct your question directly to the manufacturer. They provide both telephone and e-mail support. I would

think they would be in a very good position to help.

My question is in NO WAY a put-down, Joe. It's just that I often see questions or complaints aired here that might be better suited for the manufacturer and I have to wonder why this is so.

Joseph Trombino Jr wrote:
>
> Fellow QRP'ers:

> Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas
> if this means these tuners can tune, say, an Extended Double Zepp cut for
> 40 meters (170 foot long flat-top), on all the bands from 80-10 meters???

--

____
Bill Jones - KD7S <><
Sanger, California
http://www.psnw.com/~kd7s
____

Date: Fri, 17 Mar 2000 01:48:54 +0000
From: Larry Cahoon <wd3p@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [65939] Re: Kits: Best Bang for the buck under $100
Message-ID: <20000317.212343.-405793.1.wd3p@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

> > By the way, anyone know of a mod to the DSW??

The only one I want is a built in attenuator to cut the power to 500 mWatts. I may do that myself and put it one a switch.

>
> In the meantime, I'd (almost) kill for a 10 or 15 meter DSW (and a

I'd vote for that as well.

73 de Larry.....WD3P

____
YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Date: Fri, 17 Mar 2000 15:30:25 -0600
From: "Frank Krozel" <frank@electronicinstrument.com>
To: <kd7s@psnw.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65940] Re: New LDG Tuners
Message-ID: <006d01bf9058$02d50560$ecb7dccf@kg9h>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree.
I have two of the older kits, and they work well. They also have great service/support. The only problem I had with one of the kits was the plating on the first one was not complete. This caused me to do a lot of research and troubleshooting on the SWR reverse circuit. After all of that, I found out their design was very sound, and I had a ground missing on one of the parts. But, they stuck with me all along.
I love that tuner. I use it with a 706MKIIG2, and a very large and ugly ;-) bugcatcher. Wouldn't trade it for any other setup on the market.
KG9H
Frank
----- Original Message -----
From: Bill Jones <kd7s@psnw.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, March 17, 2000 3:23 PM
Subject: Re: New LDG Tuners

> Joe and all,
>
> There is no doubt that this group is a wealth of knowledge. But I'm
> curious why you didn't direct your question directly to the
> manufacturer. They provide both telephone and e-mail support. I would
> think they would be in a very good position to help.
>
> My question is in NO WAY a put-down, Joe. It's just that I often see
> questions or complaints aired here that might be better suited for the
> manufacturer and I have to wonder why this is so.
>
> Joseph Trombino Jr wrote:
> >
> > Fellow QRP'ers:

>
> > Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas
> > if this means these tuners can tune, say, an Extended Double Zepp cut for
> > 40 meters (170 foot long flat-top), on all the bands from 80-10 meters???
>
>
> --
> _____________________
> Bill Jones - KD7S <><
> Sanger, California
> http://www.psnw.com/~kd7s
> _____________________
>

Date: Fri, 17 Mar 2000 16:29:14 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [65941] ALL IS WELL, MURPHY CAME TO VISIT
Message-ID: <20000317.163014.-260543.2.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

HIGH Y'ALL
     WELL IT SNEAUXED LAST NITE HALF A FOOT OF THE STUFF... i GOT dressed up warm and wnet outside to see what I could salvage... of the antenna project...
     I decided the yagi could wait and I started diggin in the sneaux to find the loop......
well the wind started blowing and I couldn't throw a rope over sumthing cause it kept getting blown back in my face... and my warm clothes wasn't as warm as i thought...
     Do u kneaux how easy it is to slip on fresh sneaux what's fallen over old ice??? I finally got the loop up about 45 foots again... and while I was pulling on the last rope I heard snap ... crackle... pop.... again...

     This sounded serious--- so I took off into the wind... at least my foots did... man I an't never run so fast to go so slow.... and all this time I can hear this branch coming down the tree... I figured out my problem and let go of the rope what was in the tree... and progress was made... fifteen foots later I turned around to see a 1 foot by one inch twig fall outta the tree...

The sneaux plow guy was evidently watching the whole thing and was laughing so hard he almost fell outtta the plow... ran over a few garbbage cans... and sent a cat running for its life...

My Buddy, Wally, who lives next door had to sit in the sneaux he got to laughing so hard... My wife Grace was coming up the driveway at the time and kept a straight face... at least till she go in the house .... then I heard her start laughing and the things she was carrying started falling...

Looks like I made a lotta peoples day... anyhow murphy came and the antenna is working... and i'm gonna stay in the house the next coupla days... operating....

God bless loop antennas and for looking afte me in my time of need...

Joel KE1LA
In Maine
laughing at his self

Date: Fri, 17 Mar 2000 15:41:09 -0600
From: "George T. Baker" <w5yr@att.net>
To: kd7s@psnw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65942] Re: New LDG Tuners
Message-ID: <38D2A675.4226994F@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bill, with all due respect, the manufacturer is not really able to answer Joe's question. If they were, they would publish an adequate statement or spec of the tuner's matching range up front instead of a vague range of numbers that could mean anything.

Not a slam on LDG - they all do the same. The answer is judged to be too complex for the average ham to interpret and in many cases the actual data would not make the product all that attractive. This is especially true where power handling capability vs load impedance is concerned.

Joe is much more likely to get real insight as to what the LDG tuners can do through anecdotal evidence supplied by a "friend" who uses one.

When is the last time you saw or heard of a tuner being specified by a

Smith Chart plot showing (a) the impedance range within which a 50-ohm
resistive match can be achieved and (b) a similar plot showing the
impedance range within which the power limits of the tuner apply?

The articles in QST a couple of years ago on antenna tuner testing pretty
well spelled out the story. Even with all the detailed testing, none of
the tuners was tested for anything but resistive loads. The number of
combinations of resistive and reactive components is semi-infinite -
which is why a Smith Chart plot is really the only practical way to state
tuning range. Obtaining the data for such a plot is probably far in
excess of the effort most manufacturers are willing to put into an effort
whose outcome they feel is over the head of most of their customers.

72/73, George
Fairview, TX   30 mi NE Dallas in Collin county
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452   RVing since 1972   Kachina #91900556

Bill Jones wrote:
>
> Joe and all,
>
> There is no doubt that this group is a wealth of knowledge. But I'm
> curious why you didn't direct your question directly to the
> manufacturer. They provide both telephone and e-mail support. I would
> think they would be in a very good position to help.

Date: Fri, 17 Mar 2000 16:45:15 -0500
From: "Paul Christensen" <paulc@mediaone.net>
To: <kd7s@psnw.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65943] Re: New LDG Tuners
Message-ID: <00a601bf905a$1ec5d040$cc040d3f@paulc>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Perhaps it's because it's one thing to hear or read a claim from the
manufacturer, and yet another to solicit the opinions of those who have
actually used the product. I believe Joe's inquiry related to the use of
the tuner with a particular type of antenna. In this instance, I would much
rather have the unbiased feedback from those who have purchased the product.
On the other hand, if the inquiry is related to a particular problem or
fault of the unit, then I agree, factory support should be called on first.

-Paul, W9AC

-----Original Message-----
From: Bill Jones <kd7s@psnw.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 17, 2000 4:25 PM
Subject: Re: New LDG Tuners

>Joe and all,
>
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>curious why you didn't direct your question directly to the
>manufacturer. They provide both telephone and e-mail support. I would
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>
>My question is in NO WAY a put-down, Joe. It's just that I often see
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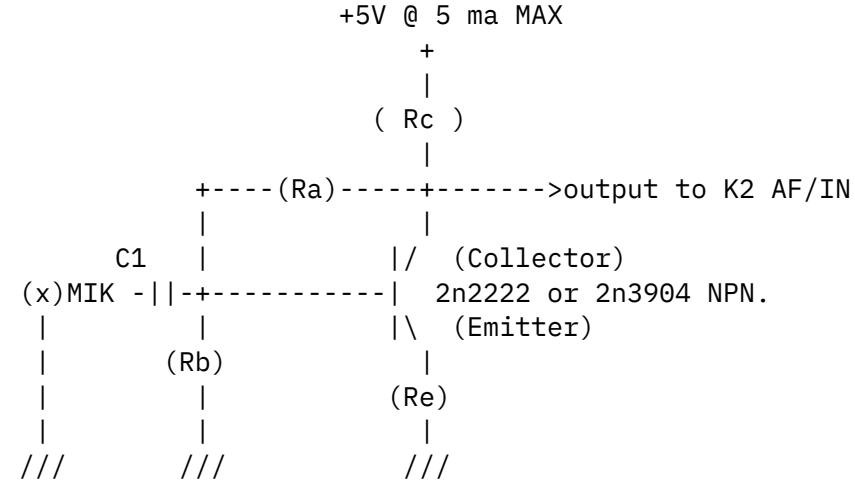
>> Fellow QRP'ers:
>
>> Both tuners indicate that they can tune loads from 6-800 ohms. Any ideas
>> if this means these tuners can tune, say, an Extended Double Zepp cut for
>> 40 meters (170 foot long flat-top), on all the bands from 80-10 meters???
>
>
>--
>_________________________
>Bill Jones - KD7S <><
>Sanger, California
>http://www.psnw.com/~kd7s
>_________________________

Date: Fri, 17 Mar 2000 13:57:31 -0800
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65944] Mike Preamp designed.
Message-ID: <38D2AA4B.50C1@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi gang, I only did the math as I remember it

so hopefully I got it right. I didn't have any
books in the area so pencil paper and brain
are potentially wrong. But I think I got a
good design. If anyone wants to check using
their modeling software, enjoy and I hope I'm
close.   remember that the K2 has a 2.2 uF cap
to a 1 Kohm load resistor. The amp feeds that.
5 Volts from SSB mike pin 6 wired internally
as "K2 microphone".



Mike: 600 Ohm Dynamic, Radioshack# 21-1172D

C1 2.2 uF Electrolytic
Ra 10 K Ohms
Rb 4.7 K Ohms
Rc 1 K
Re 27 Ohms.

Mathematics show input Z of 2.4 KOhms, Output
loaded by 1 Kohm in K2 so gain is 500/(hie/Beta))
and Voltage gain is 42.

I'll test it out tonight.

--
-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068
http://www.qsl.net/we6w Santa Rosa, CA
Cake paradox solution? Hide one and take the smaller.

Date: Fri, 17 Mar 2000 13:58:28 -0800
From: Bill Jones <kd7s@psnw.com>
To: Paul Christensen <paulc@mediaone.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65945] Re: New LDG Tuners
Message-ID: <38D2AA84.F6F1261@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul's point is well taken and certainly valid. There are always two
sides to every story. But, if it were me, I'd certainly pose the
question to LDG as well as qrp-l.

Paul Christensen wrote:
>
> Perhaps it's because it's one thing to hear or read a claim from the
> manufacturer, and yet another to solicit the opinions of those who have
> actually used the product. I believe Joe's inquiry related to the use of
> the tuner with a particular type of antenna. In this instance, I would much
> rather have the unbiased feedback from those who have purchased the product.

--

____
Bill Jones - KD7S <><
Sanger, California
http://www.psnw.com/~kd7s
____

Date: Fri, 17 Mar 2000 18:00:03 -0500
From: "beaks" <beaks@westco.net>
To: "QRPL" <qrp-l@lehigh.edu>
Subject: [65946] FS Extra stuff
Message-ID: <008b01bf9064$88263d40$8b9401d0@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang, with spring cleaning starting I would like to find homes for some
extra items.

(1) Wilderness Sierra, (my camping rig, have 2 keeping one) 80, 40, 30, 20,
17, and 15 modules. Some light scratches at edges of case, not offensive at
all. KC2 keyer/freq. display installed and ABX adjustable filter. Does app.
5 watts on 80 and app. 2 watts on higher bands. Manuals. $275.00 plus

shipping of your choice.

(2) A&A Engineering Packet modem. Small metal cased unit, does HF or VHF packet. Uses Baycom type Programs. Documentation.
$20.00 shipped.

(3) Oak Hills QRP Explorer II, one for 40 meters and one for 30 meters. Has Adjustable filter, about 2.5 watts adjustable power, RIT.
Both rigs are MISSING TOP CASE COVERS but are in fine operating condx. and appearance otherwise. (Front panels look good) $50.00 for both plus shipping of your choice.

(4) MFJ Econo Keyer II   Model MFJ 401-B Small metal cased unit, internal sidetone speaker, speed and volume controls on front, auto/semi auto keying, LED power indicator. Runs on 5-9 volts from AC or use an internal 9volt battery. Keys tube or solid state rigs, 1/4 inch key jack. Works fine, some scratches on case from field use.
$15.00 shipped.

PLEASE EMAIL ME DIRECT   beaks@westco.net
Apologies for the space used, thanks and 72 de Arch N8EAG
Fairmont, WV.

Date: Fri, 17 Mar 2000 18:38:59 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [65947] Need computer help
Message-ID: <b6.2a7081a.26041c13@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

 Action canceled
Internet Explorer was unable to link to the Web page you requested. The page might be temporarily unavailable.

--

Please try the following:

Click the Refresh button, or try again later.

If you have visited this page previously and you want to view what has been

stored on your computer, click File, and then click Work Offline.

For information about offline browsing with Internet Explorer, click the Help menu, and then click Contents
res://C:\WINDOWS\SYSTEM\SHDOCLC.DLL/navcancl.html.
Hi Gang,
I think I lost a window file.At least thats what AOhell told me.I can't surf the web.
The page wants to load but then I get the above cancl.html
Is there a way this file can be uploaded to me?.
I can delete windows but I don't have the software for the CD rom to reload the CD.
Any suggestions?
Bob
WA2HOQrp <tm>

Date: Fri, 17 Mar 2000 18:44:23 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu, FOX_TANGO@qth.net
Subject: [65948] QRO items for sale
Message-ID: <8a.1b84d95.26041d57@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi gang,
I'm posting this for KX2D
He is selling a LIKE NEW FC-757-AT external automatic tuner.
Asking $200.00
Also for an inactive ham,a 901 DM with MIC and the matching speaker patch.
$550.00 + shipping.
Bob
WA2HOQrp <tm>

End of QRP-L Digest 1763
****
